



The Fly-By

A Quarterly Publication of the
Southwest Region
January, 2017



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The Fly-By is published quarterly on the first month of each quarter. Deadline for submissions are:

1Q – 20 December

2Q – 20 March

3Q – 20 June

4Q – 20 September

Text may be submitted in the body of an e-mail (preferred) or as a document attached to an e-mail (a text file or, if generated in a word processor, saved in .RTF format).

Images must be in JPG format, un-retouched, un-cropped, and at least 1200 by 900 pixels.

Credits: In all cases, please give full grade, name and unit of assignment of

1. The article's author,
2. Photographer, and
3. Any person mentioned in the article or appears in photos.

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Send submissions to the Editor at:

awoodgate@austin.rr.com

Message size limit: 20 MB

SWR Commander's Corner

Welcome to the latest issue of Southwest Region's newsletter, The Fly-By. I am writing this article with just two days left in 2016. For me, the end of the year is a good time to reflect on how things have gone over the course of the year, to make necessary course corrections, and to plan for the coming year. Perhaps you do the same.

The first item I would like to share with you, in case you don't already know, is that Oct. 1, 2017, will mark the 75th anniversary of CAP's cadet program. This will be the Year of the Cadet as we celebrate America's finest youth development program. Congratulations to all of you current and former cadets. And to all of you who are involved in supporting our cadet program, "Thanks!" Look for information and ideas from National Headquarters about how we will celebrate this wonderful occasion. But don't wait for National. After all, we in Southwest Region have a call to "lead the way to mission success." Right? So, by all means look for innovative ways you can celebrate this great milestone, especially at the squadron level.

The other topic I would like to share with you is what my expectations are for Southwest Region. I've tried to be consistent in what I have challenged the region to, so this will hopefully look familiar to you.

Vision: Southwest Region: Leading the way to mission success!

Mission: Provide highly professional performance in CAP's three mission areas to both internal and external customers.

Priorities:

1. Be the leader in seeking institutional excellence through professionalism for aircrews, superior professional development, and leadership training and mentoring.
2. Have a Region staff that is engaged and offers value-added assistance and resources to help the wings be highly successful. How? Identify and incorporate best practices region-wide through effective crossflow of information.
3. Build and flex region-wide "muscle" in our three mission areas.
 - a. Emergency Services: Conduct a minimum of one multi-wing, multi-region training event each fiscal year.
 - b. Aerospace Education:
 - (1) Conduct a region Aerospace Education Officer school annually.
 - (2) Actively expand SWR's Aerospace Education/STEM outreach through the Teacher Orientation Program, Aerospace

Connections in Education program, and a SWR Aerospace Education Officer School.

c. Cadet Programs:

(1) Conduct region-wide cadet-focused activities such as region cadet officer school and region cadet drill competition, beginning no later than FY 17.

(2) Seek to grow CAP's "cadets at school" program in SWR, leveraging the success New Mexico Wing has experienced.

4. Develop and execute an effective region recruiting and retention program, supported by vigorous and effective wing-wide Public Affairs products.

5. Develop a region-level fundraising capability. Seek grants/funds that can be used to defray the cost of region-level activities and to provide scholarships for senior member and cadet training opportunities.

6. With the support of staff and wing commanders, actively seek new missions/customers.

You might be a wing commander, or you might be your squadron's newest cadet or senior member. Regardless, you play an important role in how well the Southwest Region performs in accomplishing the vision, mission, and priorities I have laid out above. Happy 75th anniversary to all of you, current and former cadets! And for all of you, thanks for all you do for CAP, and remember our vision: **Southwest Region – Leading the way to mission success!**

Col. Mark Smith, CAP

Southwest Region Commander 🇺🇸

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Safety is Priority One

Please read the latest issue of The Safety Beacon for timely, seasonal advice at <http://members.gocivilairpatrol.com/safety/>

Have you taken the **Operational Risk Management** Basic, Intermediate and Advanced online courses? Please visit: http://www.capmembers.com/safety/safety_education/

- Safety must be on every CAP member's mind, at all times.
- Before engaging in any CAP activity, a safety briefing must be conducted.
- Don't miss the Safety Specialty Track training posted at <http://www.capmembers.com/safety/safety-newsletters-2248/>
- **Safety is our Number One Priority.**

How to Submit News Items for this Newsletter

▪ **Which Articles Are Best?**

Ideally, articles should deal with a wing-wide event, preferably conducted in conjunction or coordinated with another wing (or better yet across regions).

Individual articles dealing with a subject that is of interest to a broad audience qualify as well.

Articles bylined by cadets, especially when the subject is of interest to a broad audience, are also welcome.

▪ **Do I Submit Photos?**

Articles with no photos may not be selected for publication. Do not embed images in a Word document. Instead, send in the original, un-retouched, full-size digital photos as attachments.

▪ **If You Have Article Ideas or Suggestions**

If you have an article in mind but are not sure whether it would be acceptable, you need some guidance in writing it, or you would like to comment on the material published here, please feel free to contact the editor: awoodgate@austin.rr.com. 🇺🇸



Top: Civil Air Patrol airmen from Sulphur Springs, Texas, and Fort Smith, Little Rock, Hot Springs and Texarkana, Ark., prepare to assist lifting an injured hiker out of a ravine at Camp Preston Hunt in Genoa, Ark. (Photos: Capt. Brad Kidder, CAP)

Below: 95th Composite Squadron Cadet Senior Master Sergeant Keaton Key of Longview, Texas (brown t-shirt), and 115th Composite Squadron Cadet Chief Master Sergeant Jonathan Frangione of Bentonville, Ark. (with radio), carry injured hiker Chris Waits of Texarkana, Texas, to safety after a hiking accident. Civil Air Patrol airmen from Sulphur Springs, Texas, and Fort Smith, Little Rock, Hot Springs and Texarkana, Ark., assisted in the rescue at Camp Preston Hunt, Genoa, Ark.

Civil Air Patrol Assists with Rescue at Boy Scout Camp

by Capt. Brad Kidder, CAP, Arkansas Wing

TEXARKANA, Ark. – During the long weekend of Oct. 28-30, 2016, approximately 35 members of Civil Air Patrol from Arkansas and Texas convened at Camp Hunt for a ground training exercise hosted by the 95th Composite Squadron, Texarkana, Ark. They were to train ground teams in Search and Rescue skills, a critical component of CAP's US Air Force Auxiliary missions. Training on Friday and conducting exercises on Saturday used electronic tracking gear, radios, maps, CAP vehicles and aircraft, and a lot of dusty black boots to locate simulated

downed aircraft, lost persons, and achieve a multitude of tasks required to become qualified ground team members. Sunday morning's ground sorties were designed to be an all-hands demonstration of the training and skills needed for ground team search and rescue.

When hiker Chris Waits went for a training jaunt with friends at Camp Preston Hunt on a crisp October Sunday morning, little did she know that her day – and



leg – would take a turn that not only changed her year-end competitive plans, but would also test the real-life rescue training of some Civil Air Patrol volunteers who happened upon the accident scene moments later. Waits' loss of footing on a trail at the Boy Scouts of America compound near Genoa, Ark., left her at the bottom of a steep ravine with shattered bones and debilitating pain, in urgent need of medical attention. On this morning, Chris Waits was to be introduced to Civil Air Patrol.


On the way to their first exercise waypoint, CAP ground team leader 2nd Lt. Stephen Green of the Sulfur Springs Composite Squadron, Texas Wing, and his team of cadets overheard a persistent call for help which they initially thought to be part of the exercise, but soon realized that it was a real-world plea for assistance. With urgency and organization, Green notified the exercise staff via radio of the emergent situation and marshaled his squad to protect the fallen hiker from falling debris as they cleared the path of loose rocks and freshly-fallen autumn leaves, rigged a rope handrail up the steep incline, and saw to the immediate needs and comfort of the victim and her friends while they waited for the arrival of emergency responders.

"They came out of nowhere. It's like they were squirrels coming from the trees," said nurse practitioner Rita Collins of Maud, Texas, recalling her surprise at witnessing the CAP members' timely appearance.

Emergency Medical Technicians who had responded to the call secured Ms. Waits to a backboard, which was lifted out of the valley by cadets formed in lines on either side of the steep path. Cadet Sr. Master Sgt. Keaton Key of Texarkana's 95th CS and Cadet Chief Master Sgt. Jonathon Frangione of the 115th CS in Rogers, Ark., organized a well-executed hand-over-hand transport of the victim up the grade until reaching the waiting ambulance on high ground.

"They saved us probably 30 to 45 minutes of waiting for [Miller] County to come help us get her out of there," one paramedic shared, as the patient was being moved onto the ambulance. "These young people are impressive."

Chris Waits, herself a registered nurse with 24 years of operating room experience, eventually returned home and, while on the post-surgery mend, shared with CAP, "I am used to being the caregiver for others in their time of crisis. On Oct. 30, I found myself in the unique situation of having my role reversed. I am so grateful for the assistance, and am awed at the teamwork and effort exerted by these CAP cadets on behalf of a total stranger."

Civil Air Patrol's slogan of "Citizens Serving Communities" was truly applicable with the rescue of Chris Waits and the support provided to her paramedics and companions. 

Right: Civil Air Patrol airmen from Sulphur Springs, Texas, and Fort Smith, Little Rock, Hot Springs and Texarkana, Ark., assist Longview Composite Squadron Cadet Senior Master Sergeant Keaton Key of Texas Wing (in brown T-shirt), and 115th Composite Squadron Cadet Chief Master Sergeant Jonathan Frangione of Bentonville, Ark. (right, with backboard) and others carry injured hiker Chris Waits of Texarkana, Texas, to safety.



Ragwings vs. U-Boats

The Civil Air Patrol
Antisubmarine Campaign
1942-1943

Lt. Col. David G. Finley, CAP



Top: Lt. Col. David Finley discusses Civil Air Patrol's antisubmarine campaign. (Photo: Lt. Col. Jay T. Tourtel, CAP)

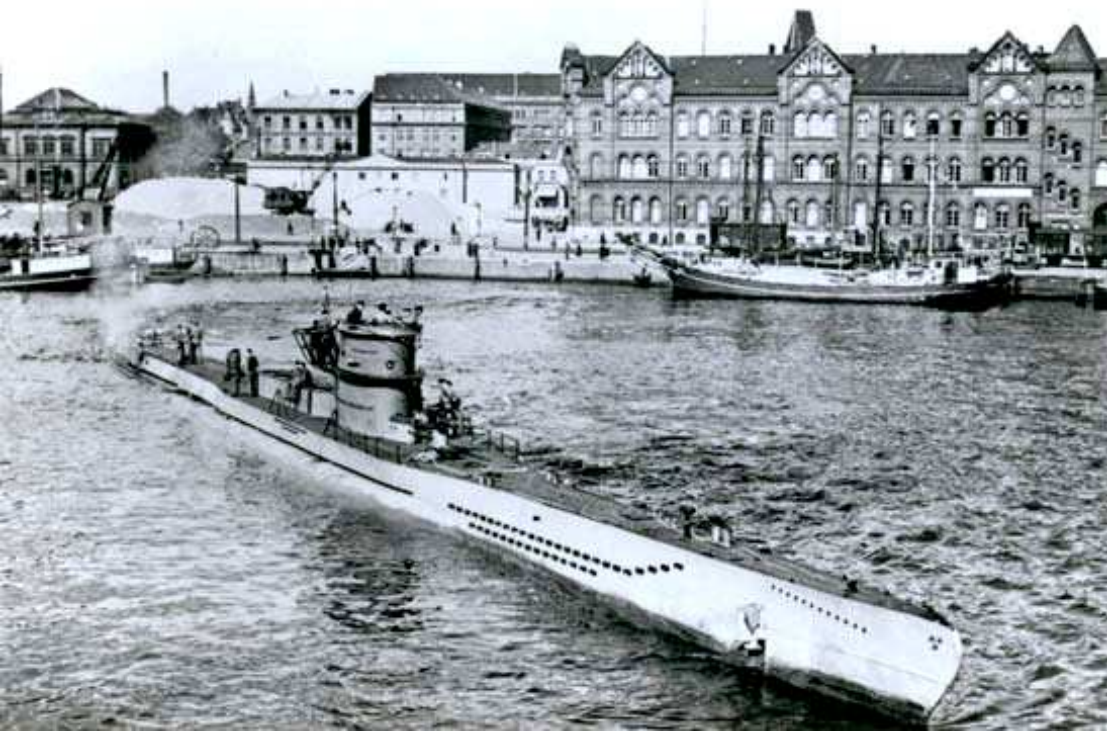
New Mexico Wing's Lt. Col. Finley Discusses Antisubmarine Campaign

by Lt. Col. Jay T. Tourtel, CAP, New Mexico Wing

SANTA FE, N.M. – At the New Mexico Wing Conference on Nov. 5, 2016, Lt. Col. David Finley, Socorro Composite Squadron's public affairs officer, paid tribute to Civil Air Patrol's World War II members in his breakout session titled, "Ragwings vs. U-Boats: The Civil Air Patrol Antisubmarine Campaign: 1942-43," which honored CAP's World War II sub chasers who, over an 18-month period, helped stop the German submarine attacks on the Atlantic coast of the United States.

German Navy Grand Admiral Karl Doenitz, the architect of the World War II U-boat attacks in the North Atlantic Ocean, had in mind one objective: cut off supplies to Great Britain – which was heavily dependent on seaborne shipping – as well as the United States. The first German submarines departed for the United States on Dec. 18, 1941, and sunk their first tanker, off the coast of Long Island, on Jan. 14, 1942. In all, during the first two months of 1942, the first wave of five U-boats sank 22 Allied ships, with no losses of their own.

Enter the Civil Air Patrol. In March 1942, the United States Army Air Corps authorized CAP to patrol the Atlantic coast of the United States in search of German U-boats.



Left: Launching of U-218 at Kiel, Germany, in 1941. (Photo from J.P. Mallmann Showell, *U-Boats under the Swastika* (1987))

The presence of CAP aircraft was a source of harassment to the U-boats, which had to crash-dive – usually into deep water – for fear of being attacked by the aircraft or Allied warships called by the CAP aircrew.



The first U-boat spotted by a CAP Coastal Patrol aircraft on March 10, 1942 – off the coast of Cape May, New Jersey – caused the U-boat to crash-dive, thereby thwarting its attack. CAP pilots were also instrumental in spotting the surviving crew members of ships sunk by U-boats. After a U-boat ran aground in May 1942, and no support aircraft were near the CAP aircraft, General H. H. “Hap” Arnold authorized Civil Air Patrol aircraft to be armed with bombs and depth charges. The first attack on a German U-boat was in July 1942, near Absecon, N.J., when a CAP aircraft dropped two depth charges on a retreating U-boat.

By August 1943, Civil Air Patrol’s Coastal Patrol – along with naval escort convoys supplied by the United States, Canada and Britain – caused Doenitz to order his U-boats withdrawn to less protected areas.

In December 2014, CAP’s sub chasers were honored with the Congressional Gold Medal for their service to the nation during World War II.

Finley said, “Men well past draft age flew what were essentially combat missions. CAP’s volunteers knew it was dangerous, and while there would have been no shame in sitting things out, they stepped up anyway.” 🇺🇸

Left: Grand Admiral Karl Doenitz, architect of the World War II submarine attacks. (Photo Courtesy Bundesarchiv_Bild_146-1976-127-06A,_Karl_Dönitz)



Top: As part of the exercise, CAP-01 captured the scene at the Bossier Civic Center where simulated gunmen attacked citizens standing in line for a Veterans' Job Fair. (Photo: 2nd Lt. Tony Williams, CAP)

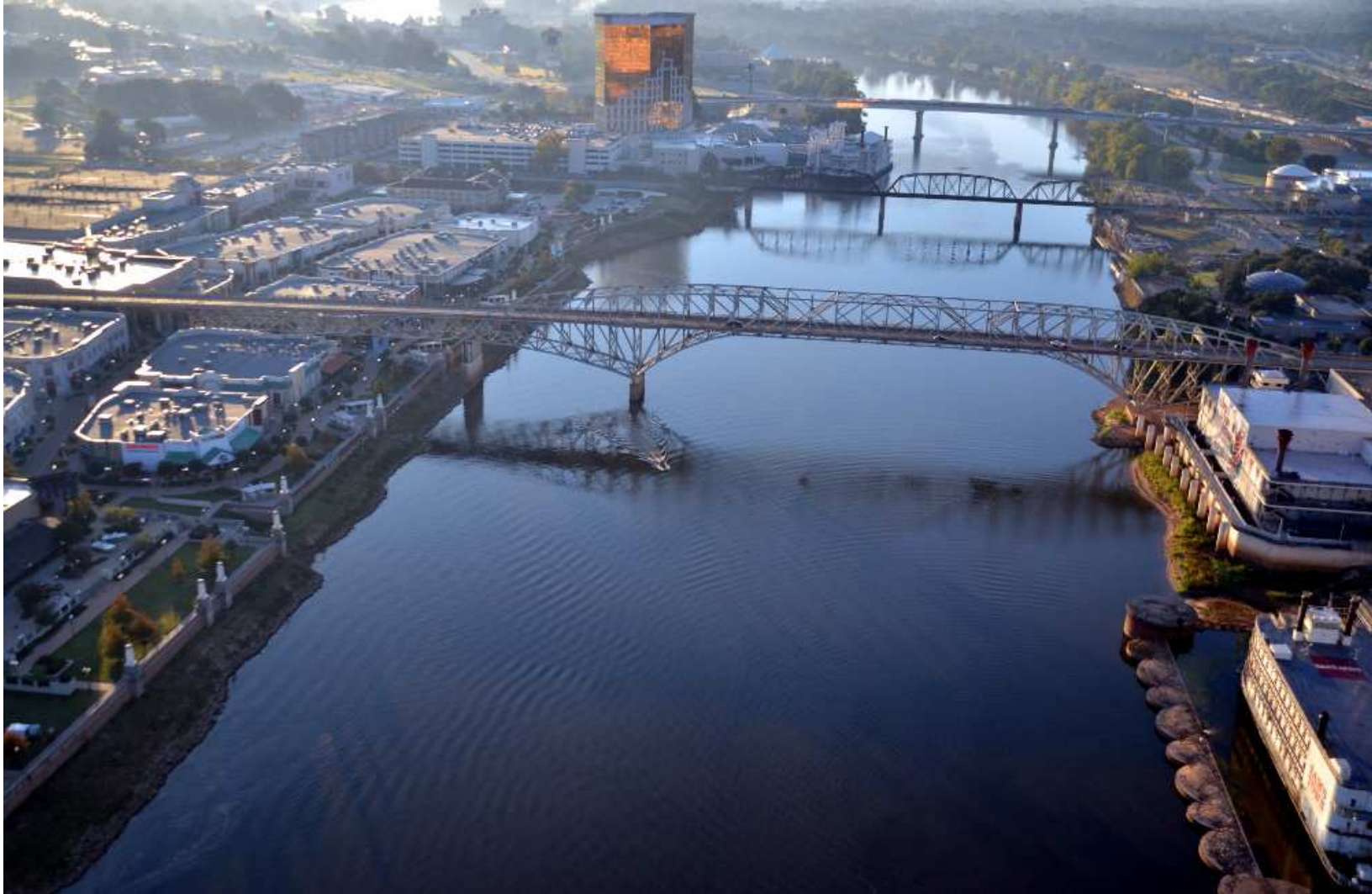
Below: CAP-01 Aircrew: (L-R) Mission Scanner 2nd Lt. Tony Williams, CAP Exercise Commander and Louisiana Wing Commander Col. Thomas "Doc" Barnard, and Mission Pilot 1st. Lt. Jim Peck (Photo: S.M. Bill Carroll, CAP)

Louisiana Wing Supports Parish-Wide Emergency Services Exercise

by 1st Lt. James Peck, CAP, Louisiana Wing

BOSSIER CITY, La. – On Tuesday, Oct. 25, 2016, the Shreveport Senior Squadron and the Barksdale Composite Squadron of Civil Air Patrol (CAP) participated in the first Parish Wide Emergency Exercise conducted by Bossier Parish, located in Northwest Louisiana. The exercise featured multiple threat attacks spread across the parish: drive-by shootings, live shooter events, bomb threats, and suspicious activity near waterway infrastructures. Cadets from the Barksdale Composite Squadron played the role of individuals standing in line for a veterans' job fair during a "live shooter event" at the Bossier Civic Center. The Shreveport Senior Squadron provided two aircraft and crews who were airborne during the entire exercise providing live situational awareness and aerial photography support at multiple locations spread out across the Parish.





Above: As part of the exercise, CAP-01 captured a photograph of possible “bombing suspects” in a boat under the bridge near downtown Bossier City and Shreveport. (Photo: 2nd Lt. Tony Williams, CAP)

Below: The Crew of CAP-02: (L-R) Mission Observer 2nd Lt. Jim Partington and Mission Pilot S.M. Ralph Forrester (Photo: S.M. Bill Carroll, CAP)

This was the first time that CAP had been invited to participate in this type of exercise in Bossier Parish. Col. Gene Barattini, deputy director of The Bossier office of Homeland Security, was in charge of the exercise. When asked why CAP was invited to participate in this event, he said: “You have been there when we needed you during two historic floods, but we always knew there was more you could do for us. How did we know this? Through your professionalism and quality of work during some of our worst days”.



Concerning the contribution made by the squadrons during this exercise, Barattini said: “Civil Air Patrol was the glue that made this whole drill possible. Our Local CAP Squadrons validated our success on the ground to lock down, respond, and coordinate.” During the exercise’s initial debrief, several of the participating agencies and staff from the Emergency Operations Center also gave high marks to the contribution provided by the CAP “eyes in the skies.”



Above: As part of the exercise, CAP-02 captured the scene as police arrived to respond to a reported active shooter situation at the Benton Town Hall. (Photo: 2nd Lt. Jim Partington)

According to Col. Barattini, this drill was based on world events of the last eighteen months which took place in Memphis, Tenn.; Paris; San Bernardino, Calif.; and Orlando, Fla.

This drill was spread over 104 facilities in lockdown, involving directly or indirectly 61,000 citizens of Bossier Parish. The school lockdown alone, which included all public and private schools in the parish, involved 33,000 students plus teachers and staff. These figures reflect this drill's primary goal of testing the ability of a parish or county to lock down in an emergency and/or security situation.

The second goal of the drill was to work on collective/multi-discipline response (Fire, EMS, and Law Enforcement), not only in the big city but in multiple, concurrent rural incidents, a challenge in terms of resources and distances.

The third goal of the drill was to test the effectiveness of communication among responders that is always a challenge.

There were lessons learned for CAP as well. Overall, the exercise was excellent training for all involved. CAP Louisiana Wing Commander Col. Thomas "Doc" Barnard, who participated in the exercise said, "Civil Air Patrol has long been a 'force multiplier' for our armed services and state emergency services agencies, but these dedicated, trained and professional volunteers are an invaluable asset to local communities as well. Our people performed well today and I am extremely proud of each of them. And, by the way, we are now in a recruitment phase for new volunteer members: exciting jobs, excellent training and pride in serving your community, state and Nation." 🇺🇸



Top: Fort Smith National Cemetery at the end of the day. (Photo: Courtesy Kim Kidder)

Below: Cadet Abigail Johnson places a wreath at the marker of Cal Whitson, the eye-patch wearing US Marshal after whom the “True Grit” character Rooster Cogburn was created. (Photo: Capt. Brad Kidder, CAP)

Arkansas Wing Participates in Wreaths Across America

by Capt Brad Kidder, CAP, Arkansas Wing



FORT SMITH, Ark. – On Dec. 17, 2016, Civil Air Patrol members from Arkansas Wing participated in the Wreaths Across America campaign, laying wreaths of laurels and bows on America’s fallen veterans for the 2016 holiday season. Little Rock National Cemetery is the burial place for Medal of Honor recipient Maurice “Footsie” Britt, while Fort Smith National Cemetery is the final resting ground for Judge Isaac C. Parker, Brig. Gen. William O. Darby (founder of the U.S. Army Rangers), Cal Whitson (the U.S. Marshal after whom “True Grit” author Charles Portis created his fictional character Rooster Cogburn), and Bataan death march survivor Fidel Tomandao.



Above: (L-R): Cadet Abigail Johnson and Cadet Airman Micah Alt. (Photo: Courtesy Kim Kidder)

Below: (L-R): 83rd Composite Squadron Commander Maj Scott James, Cadet Abigail Johnson, and Senior Member Matthew Alt. (Photo: Courtesy Kim Kidder)

The 83rd Composite Squadron from Fort Smith honored 53 requests for individual wreath placements. Friends, family members, pastors and church members, former commanders, generals, and historical figures were recognized with a dress-out of their wreath which was then placed at their marker base from bended knee and bowed head, concluding with a respectful retreat and ceremonial salute by uniformed members of the Air Force Auxiliary.





Top: (L-R): Cadet Abigail Johnson, Cadet Micah Johnson, Capt. Brad Kidder, Cadet Airman Micah Alt. (Photo: Courtesy Kim Kidder)

Below: (L-R) Brothers Cadet 1st Lt. Joseph Wittig and Cadet Master Sgt. Evan Wittig. (Photo: Maj. Pat Schmidt, CAP)

Maj. Patricia Schmidt, Squadron Activities Officer for the 83rd Composite Squadron, who is a park ranger at the Fort Smith National Historic Site, arranged for CAP to honor the first interment at the Fort Smith National Cemetery, surgeon Thomas Russell, and the founder of Fort Smith, Maj. William Bradford. Afterwards, ten cadets and five senior members formed two flights and devoted the next two hours to rendering honors at specified graves around the cemetery.

The morning's final CAP salute was rendered at the gravesite of CAP veteran Manford B. "Manny" Redifer, one of two Arkansans to receive the Congressional Gold Medal for service in Civil Air Patrol during World War II, who passed away on Oct. 8, 2016, just one week before the second recipient, Mr. Ralph Watson, was scheduled to receive his CGM. 🇺🇸





Top: Cadet Lt. Col. Kurt LeVan plays taps at the Wreaths Across America ceremony in Vernon Cemetery in Coweta, Oklahoma. (Photos: 1st Lt. Kathy Sexton, CAP)

Below: (L-R) Cadet Chief Master Sgt. Carson Bilbruck and Cadet 1st Lt. Julian Shivers salute as members of Rolling Thunder place ceremonial wreaths at Vernon Cemetery.

Oklahoma Wing Squadron Hosts First Wreaths Across America Ceremony

by 1st Lt. Kathy Sexton, CAP, Oklahoma Wing

COWETA, Okla. – On Dec. 17, 2016, the Broken Arrow Composite Squadron participated in the nationwide Wreaths Across America ceremony, an event that is not new to Civil Air Patrol. Oklahoma Wing's Broken Arrow Composite Squadron had assisted with several Wreaths Across America ceremonies in the past, but never hosted a ceremony themselves. When they were planning events for 2016, the cadets suggested hosting a ceremony at a smaller cemetery where several veterans were buried. A senior member finance officer researched the requirements and spoke with several Wreaths Across America employees before committing the squadron to participate in this nationwide annual event.



Right: Cadet Lt. Col. Kurt LeVan salutes the grave of his great grandfather (a World War II Army veteran) during Wreaths Across America.

Below: Cadet Chief Master Sgt. Carson Bilbruck and Cadet 1st Lt. Julian Shivers salute the ceremonial wreaths.

City of Coweta Chamber of Commerce members approved Vernon Cemetery as the site for Broken Arrow Squadron to host their first ceremony as the lead squadron. Almost 400 veterans are buried at Vernon Cemetery; two of them served in the Civil War, and one served in the Spanish American War.

Coweta Branch of Rolling Thunder, Inc. – an organization devoted to supporting veterans of all American wars – assisted



the squadron with the ceremony. Seven members of Rolling Thunder placed the ceremonial wreaths representing the five branches of the Armed Services, Merchant Marines and the POW/MIA wreath. Local Rolling Thunder President Kay Guynes said, "We are so excited to assist Broken Arrow Squadron with this ceremony. Honoring our veterans by remembering them at Christmas is so moving."

Coweta Mayor Robbie Morton spoke at the ceremony. "We hope this will be an annual ceremony in Coweta," he said. "These cadets show so much professionalism and respect. It is refreshing to see that these days."

Cadets and senior members were undeterred by temperatures in the 30s and rain that fell all morning. Master of Ceremonies Capt. Tina Nazarian, the squadron's deputy commander for cadets, arrived at Vernon Cemetery before 9:00 a.m. with the participating cadets, in order to practice and go over the events of the day.

"It is truly an honor to place the wreaths in tribute to the men and women who served in our Armed Forces. As a veteran, I know of both the honor and the commitment of serving in the military and what it demands. I am grateful for those who served before me," said Nazarian.

Although, the squadron did not sell enough wreaths to place one on each of all veterans' graves, they did better than is average for a first-time participant host unit. They have now set themselves the goal of having a wreath for every veteran in 2017. 🇺🇸



Top: Cadet Senior Airman Ethan Beal of West Mesa Composite Squadron salutes a fallen veteran. (Photos: Lt. Col. Jay T. Tourtel, CAP)

New Mexico Wing Honors Fallen Veterans

by Lt. Col. Jay T. Tourtel, CAP, New Mexico Wing

SANTA FE, N.M. – On Dec. 17, 2016, at Santa Fe National Cemetery, twenty-two cadets and six senior members from six different squadrons honored our country's fallen veterans at the Wreaths Across America wreath-laying ceremony.

The snow was falling as the guests began to arrive, but the weather had cleared when the ceremonies began at 10:00 a.m., an event coordinated with the national wreath-laying ceremony at Arlington National Cemetery, which begins at noon Eastern Standard Time.

The flag flew at half-staff, in silent testimony to those fallen who were being honored. A combined color guard, consisting of cadets from Santa Fe Composite Squadron and the Santa Fe High School Naval Junior ROTC Battalion, presented the colors. Southwest Region Command NCO Senior Master Sgt. Charles Grosvenor began the ceremonies by saying, "The freedom we enjoy today did not come without a price."

Right: The flag flies at half-staff at Santa Fe National Cemetery.

Below: A bagpiper renders a musical tribute.

Members of the Gold Star Mothers (women whose children have died in the service of their country) laid wreaths representing veterans of the Army, Navy, Air Force, Marines, Coast Guard, Merchant Marine and those taken as prisoners of war or reported missing in action.

Throughout the ceremony, dignitaries reminded those present of the price that was paid to secure our freedoms. Retired Air Force Lt. Col. Alex Carruthers, vice president of the General "Fig" Newton Chapter of the Tuskegee Airmen, repeated a familiar theme, "Those who do



not remember the past are condemned to repeat it."

A bugler played Taps. The color guard retired the colors. A bagpiper from the New Mexico Fire Department Fire and Police Pipes and Drums played "America the Beautiful" followed by "Amazing Grace," and the formal part of the ceremony was over.

Cadet and senior members from Albuquerque Heights "Spirit" Composite Squadron, Eagle Cadet Squadron, Santa Fe Composite Squadron, LBJ Middle School Cadet Squadron, West Mesa Composite Squadron and Los Alamos Composite Squadron laid the wreaths at the graves of over 300 veterans. As they remembered and honored those who had gone before. Their acts of solemn service brought to mind the words of President Ronald Reagan, "Freedom is never more than one generation away from extinction." 🇺🇸



Top: CAP members from Deer Valley Composite Squadron 302 in Phoenix stand in formation during ceremonies at the National Memorial Cemetery of Arizona. (Photo: 2nd Lt. Amber O'Donnell, CAP)

Below: Cadet Airman Kylie Erickson, Yuma Composite Squadron 508, lays a wreath at Desert Lawn Memorial Cemetery in Yuma, Ariz. (Photo: S.M. Kurt Schmidt, CAP)

Four Arizona Wing Squadrons Participate in Wreaths Across America

by Capt. Margot Myers, CAP, Arizona Wing

PHOENIX – On Dec. 17, 2016, at three Arizona cemeteries, cadets from four Arizona squadrons joined with their fellow Civil Air Patrol members across the country in the Wreaths Across America program.

Cadets from Squadrons 205 (Verde Valley/Sedona) and 206 (Prescott Metro Area) got together to lay wreaths at the Prescott National Cemetery, where almost 5,000 veterans are buried. The activity, undertaken on a very cold, clear day, was an opportunity for cadets from both squadrons to work together and remember fallen American veterans, honor those who serve, and learn the value of freedom.

“More than one CAP member’s eyes, both cadet and senior members, misted during the ceremonies, and not because of the biting breeze that was blowing,” said Prescott Composite Squadron Public Affairs Officer 2nd Lt. Stephen Echols. “The main speaker, possibly unknowingly, emphasized the concepts that we in CAP take so seriously: Integrity, Service, Excellence and Respect.”

The weather was warmer in Phoenix and Yuma, Ariz., where members of Deer Valley Composite Squadron 302 and Yuma Composite Squadron 508 also took part in the wreath-laying ceremonies. In Phoenix, wreaths were laid at the National Memorial Cemetery of Arizona, which has more than 58,000 veterans’ graves. In Yuma, participants placed wreaths on more than 3,000 veterans’ graves at the private Desert Lawn Memorial Cemetery.

Squadron 302’s Deputy Commander for Cadets 2nd Lt. Amber O'Donnell said, “In addition to placing wreaths on the headstones, we made sure to say thank you as we shook the hands of veterans in attendance. Numerous young children handed out pictures that they had drawn for the Veterans. Senior Member Don Frye received two.”

After the formal ceremonies were concluded at each location, CAP cadet and senior members joined other members of the community in the actual laying of wreaths. This noble task was performed in a joyous and celebratory, yet respectful manner by all who gathered on these sacred grounds. 🇺🇸





Above: (L-R) Cadet Lt. Cols. Kurt LeVan and Cole Shaffer shake hands after the change of cadet command ceremony.

Below: In 2004, Cadets LeVan and Shaffer participated in Wreaths Across America. (Photos: 1st Lt. Kathy Sexton)

Two Oklahoma Wing Cadets Earn their Eaker Achievement

by 1st Lt. Kathy Sexton, CAP

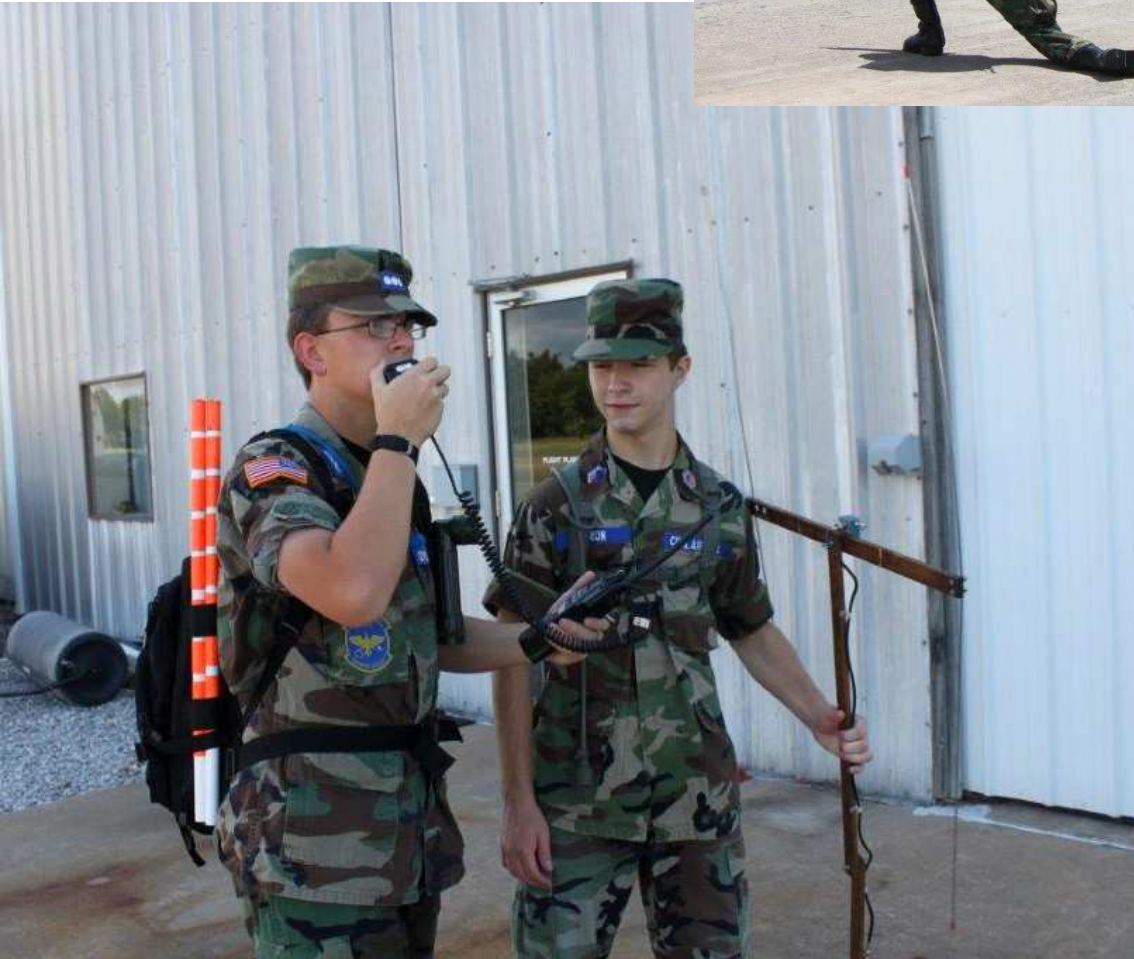
BROKEN ARROW, Okla. – The Eaker Achievement is earned by less than two percent of Civil Air Patrol cadets nationwide. Two cadets from Broken Arrow Composite Squadron earned the Eaker Achievement Award in November, 2016: Cadet Lt. Cols. Kurt LeVan and Cole Shaffer.

Cadet Lt. Col. Kurt LeVan joined Civil Air Patrol on May 14, 2014. He earned his first stripe a week before his first encampment in July, 2014. His first encampment was at Camp



Gruber near Braggs, Okla. "I learned so much that week," LeVan said. "I knew that first summer that I would be a long-term Civil Air Patrol member. I love all CAP has to offer me." LeVan is currently the cadet commander of the Broken Arrow Composite Squadron.

Right: Cadet Lt. Col. Kurt LeVan practices his aircraft marshalling skills at the McAlester Fly-In last May.



Left: Cadet Lt. Col. Kurt LeVan performs radio communication while working with Cadet Master Sergeant Christian Gordon. Cadets were part of a ground team searching for an Emergency Locator Transmitter near Inola.

CAP made several offers to ensure a long-term relationship with LeVan. Cadet LeVan's first orientation ride on a Civil Air Patrol Cessna came in August, 2014. Although he had been around single-engine aircraft before, this ride was special. He learned the inspection

protocol of the aircraft and was shown some of the flight procedures. This flight planted the seed of attending CAP's Powered Flight Academy.

Cadet LeVan's first emergency service mission came in October 2014, when a small aircraft crashed in a field near Tulsa. The Broken Arrow Composite Squadron was called to maintain a security line in order to keep onlookers away from the aircraft debris. He has been on several emergency service missions in his two and half years with CAP. One mission earned him a find ribbon for locating an ELT transmission, while another mission took him on a two-day search looking for a missing person. Cadet LeVan has a GTM1 rating, the highest rating below Ground Team Leader, for which he must be at least 18 years old.

The summer of 2016 was all CAP activities for Cadet Lt. Col. LeVan. At the beginning of the summer he was named Oklahoma Wing's Cadet Safety Officer. He served with the senior



7

member safety officer at Camp Gruber's Encampment. Also, in June, he soloed at Powered Flight Academy in Shawnee, Okla.

Left: In 2014, Cadets LeVan and Shaffer speak with a former CAP cadet, then in the Naval Academy.

Below: Cadet Cole Shaffer works with Broken Arrow Composite Squadron Commander Maj. Rick Rutledge to find an Emergency Locator Transmitter.

One of the requirements of the Eaker award is to attend a Cadet Officer School. Cadet Lt. Col. LeVan and Cadet Lt. Col. Cole Shaffer attended Cadet Officer School at Maxwell Air Force Base in Montgomery, Ala. in July 2016.

Cadet Lt. Col. Cole joined Civil Air Patrol at Paine Field Composite Squadron in Washington State in October 2010. Shaffer attended his first encampment in August 2011. He also attended Western Cadet Academy in October 2011.

Cadet Shaffer was active in color guard competitions and marksmanship encampments. He received his Sharpshooter medal in May 2013. His color guard team won 2nd place in March 2012 at Washington Wing's Cadet Color Guard Competition.

Cadet Shaffer moved with his family to Oklahoma in 2014. In September 2014, he was installed as the squadron's cadet commander. He also earned his Mitchell Achievement. The same as Cadet LeVan, Cadet Shaffer is active in emergency services. "I have been honored to accept Broken Arrow Composite Squadron's award for Ground Team of the Year at Oklahoma Wing's conference in 2015," Shaffer said. Cadet Shaffer has a GTM3 emergency services rating.

Shaffer applied and was accepted to attend National Blue Beret in July 2015. This elite emergency services school is held in Oshkosh, Wis. Cadets and senior members assist the Experimental Aircraft Association with one of the world's largest fly-in. Duties include anything from marshalling small aircraft to crowd control.

"We are very proud of both cadets," said Deputy Commander for Cadets Capt. Tina Nazarian. "Both have worked hard to achieve their awards."

Next on the horizon for both LeVan and Shaffer is to earn their Spaatz Achievement that carries with it the grade of cadet colonel, the highest level that a cadet can achieve in Civil Air Patrol. 🇺🇸





Top: Arizona Wing Assistant Vice Commander (West Sector) Lt. Col. Heather Muehleisen (left), and Wing Commander Col. Martha Morris (right) presented the CAP Exceptional Service Award to Maj. Chris Dusard. (Photo: Lt. Col. Paul Gerner, CAP)

Arizona Wing Member Recognized for Technical Achievements

by 2nd Lt. Gordon Helm, CAP, Arizona Wing

DEER VALLEY, Ariz. – Emergency Services Officer Maj. Christopher R. Dusard, a member of the Deer Valley Composite Squadron 302 in Arizona Wing, has received an award for “exceptionally outstanding” service in recognition of technical projects of regional and national scope.

While he was still a captain, Maj. Christopher R. Dusard was creating, designing or managing three different projects, which led to the recognition by Wing Commander Col. Martha Morris. Dusard received the Civil Air Patrol’s Exceptional Service Award.

"This is the highest Civil Air Patrol award you can receive without putting yourself in harm's way," said Morris at a ceremony during a senior members' meeting at Deer Valley Composite Squadron 302.

The first project was envisioned and created by Dusard to ultimately assist CAP aircrews nationwide in more effective ground training on the Garmin G 1000. As CAP gradually transitions to glass cockpits in its aircraft, aircrew quality training in the Garmin 1000 is key to mission success. The G1000 is an integrated flight instrument system composed of two display units: a primary flight display and a multi-function display.

Dusard designed a bezel unit for the G1000 computer software that works like the actual G1000 unit. "The bezel provides the muscle memory inputs that aircrew members need in order to learn more effectively how to use this complex equipment," said Dusard.

A second project is designed to improve Incident Command effectiveness during emergencies. Dusard continues to provide software expertise to the Arizona Wing's Caplink project, that enables reliable remote communications via an Internet/CAP repeater interlink. This interlink allows Arizona Wing Incident Management Teams to conduct missions through a virtual command post.

Although this project is still in the beta-testing phase, Caplink capabilities have been demonstrated at a regional level, and CAP Southwest and Pacific regions are currently considering how best to exploit this capability.

Because of his demonstrated expertise as a technical advisor to the Arizona Wing, Dusard was picked to lead another national project: field-testing of the Cloudcap Cessna 182. This airplane is equipped with a civilian version of the Forward Looking Infrared (FLIR) optical system used by the military and law enforcement.

Dusard and his team are evaluating this platform for CAP National Headquarters. The field tests are designed to test the effectiveness of the platform in Counterdrug, Search and Rescue, and Disaster Relief scenarios. Dusard's work is critical to National Headquarters' determination whether the system is feasible for deployment to CAP wings throughout the southwestern United States.

"Maj. Dusard is our resident genius," said Capt. Jeffrey G. Landtiser, former Squadron 302 commander. "In addition to his Emergency Services and aircrew training work for the squadron and wing, Maj. Dusard also takes the time to look to our future and work toward achieving it." 🇺🇸

Below: (L-R) Maj. Chris Dusard, the mission observer and Geospatial Information Interoperability Exploitation – Portable (GIIEP) operator, flies with Mission Pilot Capt. Russ Miler to demonstrate the capabilities of the GIIEP equipment during an operations exercise. *(Photo: Capt. Cindy E. Beck, CAP)*





Top: (L-R) Cadet Lt. Col. Kurt Levan, Oklahoma Wing Commander Col. Dale Newell, Oklahoma Air National Guard Assistant Adjutant General–Air Brig. Gen. Thomas Ryan, Cadet Lt. Col. Cole Shaffer and Broken Arrow Composite Squadron Commander Maj. Rick Rutledge. (Photo: 1st Lt. Kathy Sexton, CAP)

Oklahoma Wing Celebrates CAP's 75th Anniversary

by Lt. Col. David McCollum, CAP, Oklahoma Wing

OKLAHOMA CITY – On Nov. 19, 2016, members of Civil Air Patrol's (CAP) Oklahoma Wing were joined by elected officials and other distinguished guests at Oklahoma City's Wiley Post Airport to celebrate CAP's 75th anniversary. The reception featured static displays of several Wing aircraft, vans, communications equipment, recruiting displays and historic information.

Wing Commander Col. Dale Newell, when appearing on the local ABC affiliate on the preceding day to discuss the event and provide historical perspective on CAP's early operations, told a story from 1951, reported in the news media, of an Oklahoma Wing member whose resourcefulness and commitment to duty showcase the wing's creativity and dogged service. That year, a CAP pilot, unsuccessful through other means, buzzed a bridge over the Neosho River, swollen with raging floodwaters, to force scores of onlookers off the span just before it collapsed. In a later interview on the local NBC affiliate, Newell stated that it is this type of inventiveness and dedication that continues to manifest itself in current Oklahoma Wing members, as they strive to be the finest force of unpaid professionals in the nation.

Right: Posting of the colors. (Photos this page: 1st Lt. Brian P. Heck, CAP)

Below Left: USAF Col. Thomas Brown, Jr.

Bottom: Col. Dale Newell.

Col. Thomas Brown, Jr., vice commander of the 72nd Air Base Wing at Tinker Air Force Base, told attendees that CAP is a vital part of the total force and has a special relationship with Tinker.

"Today we celebrate 75 years of unwavering, committed and dedicated support from our Nation's Civil Air Patrol," said Brown. "Every day the Civil Air Patrol serves proudly and every day they are faithfully supported by their families and communities as



they get about the Nation's business. I represent the United States Air Force and our job is to Fly, Fight and Win our Nation's Wars and, honestly speaking, we cannot do that without you! We dominate Air, Space, and Cyberspace as part of a Joint team – you are part of that! Defense of this great Nation is not possible without all Total Force Partners, not the least of which is the Civil Air Patrol! Seventy-five seems to be a special number these days: The Civil Air Patrol will reach this magnificent milestone as of 1 Dec., 2016 and Tinker Air Force Base is about to reach the exact same marker in a few weeks. You cannot be more joined at the hip than that. You deserve all accolades being bestowed upon you and they most likely won't truly do justice to the impact you've made."

Oklahoma State Representative Gary Banz, outgoing commander of the Oklahoma Wing Legislative Squadron, presented to

the wing a proclamation from the governor and a citation from the Oklahoma House of Representatives recognizing the wing's service to the state and CAP's 75th birthday.

The evening was capped off by the presentation of Eaker Awards and promotion to cadet lieutenant colonel for two Tulsa-area cadets, members of Broken Arrow Composite Squadron: Kurt Levan and Cole Shaffer. The awards were presented by Assistant Adjutant General–Air Brig. Gen. Thomas Ryan, Oklahoma Air National Guard. 🇺🇸





Top: (L-R): Southwest Region Commander Col. Mark Smith presents New Mexico Wing Commander Col. Mike Lee with a plaque commemorating CAP pilots Capt. Bruce W. Flegal and 2nd Lt. Harry C. Mulroy, who lost their lives during an aircraft search on March 12, 1944. (Photo: Lt. Col. Jay T. Tourtel, CAP)

2016 Wing Conference Focuses on CAP's Past, Present and Future

by Lt. Col. Jay T. Tourtel, CAP, New Mexico Wing

SANTA FE, N.M. – Over the weekend of Nov. 4-6, 2016, Civil Air Patrol's New Mexico Wing held its Annual Wing Conference at the Courtyard Marriott in Santa Fe, in commemoration of Civil Air Patrol's 75th anniversary. CAP was chartered on Dec. 1, 1941, just six days before Pearl Harbor.

This year's festivities began on Friday evening, Nov. 4, with a special Cadet Ball, that allowed the wing's teenaged cadets from all over the state to mix, mingle and get to know each other, with a handful of adult CAP members on hand to serve as chaperones. Those adults not otherwise occupied enjoyed a no-host reception, where they were able to make new acquaintances and renew old ones.

Saturday morning, Nov. 5, began with the General Session, presided by New Mexico Wing Commander Col. Mike Lee, who presented awards to individuals and units for their accomplishments for the past year. Southwest Region Commander Col. Mark Smith spoke on the state of Civil Air Patrol nationally, as well as of the Southwest Region, which includes Arizona, Arkansas, Louisiana, New Mexico, Oklahoma and Texas Wings.

2017



Left: (L-R) New Mexico Adjutant General Brig. Gen. Andrew E. Salas presents Col. Lee with a proclamation, signed by New Mexico Gov. Susana Martinez, in commemoration of CAP's 75th Anniversary. (Photo: Lt. Col. Jay T. Tourtel, CAP)

Remembering the price that CAP members paid for our country's freedom during World War II, Smith presented Lee with a plaque honoring the memories of Capt. Bruce W. Flegel and 2nd Lt. Harry C. Mulroy, who lost their lives during a search and rescue mission on Mar. 12, 1944.

Following the Region and Wing updates, cadet and senior members attended a number of informative breakout sessions. The cadets had their own breakout session, where cadets from four different squadrons constructed their own Martian habitats, using the materials provided. Lt. Col. David Finley, public affairs officer for Socorro Composite Squadron, talked about Civil Air Patrol's antisubmarine warfare, and how it turned the tide during World War II. With an eye toward the future, Lt. Col. Sharon Lane, New Mexico Wing administrator and liaison coordinator, spoke about how to succeed as a female leader in CAP.

At the evening's banquet, among the persons honored, Maj. Andrew Beattie of Clovis-High Plains Composite Squadron was named Senior Member of the Year, Cadet Capt. Ryan Fitzgerald of LBJ Middle School Cadet Squadron was named Cadet of the Year and Socorro Composite Squadron was named Squadron of the Year.

The banquet's guest speaker, New Mexico National Guard Adjutant General Brig. Gen. Andrew E. Salas, praised New Mexico Wing for its past and present accomplishments, and had high hopes for its future.

"You are making a difference," Salas said. "You're setting the example, and you're carrying the torch for the next generation." 🇺🇸



Left: (L-R) Col. Lee presents the Squadron of the Year Award to Socorro Composite Squadron commander Maj. Dennis Hunter, accompanied by public affairs officer Lt. Col. David Finley, 2nd Lt. Heather Kathrein, Cadet Senior Master Sgt. Alexander Torres, 1st Lt. Michael Worley, and Cadet Airman 1st Class Nicholas Torres. (Photo: Lt. Col. Sandra Hudson, CAP)



Top: Louisiana Wing Commander Col. Thomas "Doc" Barnard speaks about CAP's efforts and commitment during WWII and its present-day mission. (Photo: Lt. Col. Floyd Miles, CAP)

Louisiana Wing Celebrates Civil Air Patrol's 75th Anniversary

by 1st Lt. Daniel Stoute, CAP, Louisiana Wing

NEW ORLEANS – On Saturday, Dec. 3, 2016, Civil Air Patrol members from across Louisiana gathered at The National WWII Museum for a ceremony commemorating the 75th anniversary of the Civil Air Patrol's founding. Louisiana Wing Commander Col. Thomas "Doc" Barnard spoke about Civil Air Patrol's efforts and commitment during World War II and its present-day mission. First Lt Daniel Stoute read a proclamation from Governor John Bel Edwards declaring Nov. 27 – Dec. 3, 2016, as Civil Air Patrol Week in the state of Louisiana.



Above: Louisiana Wing celebrates Civil Air Patrol's 75th Anniversary at The National WWII Museum. (Photo: Maj. Kenneth Brummett, CAP)

Below: (L-R) Lt. Col. Lester Cambre, Capt. Brian Bowling, Capt. Emmett Bartholomew, Louisiana Wing Commander Col. Thomas "Doc" Barnard, 1st Lt. Daniel Stoute, and Lt. Col. Robert White at the Louisiana Wing's celebration of the Civil Air Patrol's 75th Anniversary, at The National WWII Museum. (Photo: Lt. Col. Floyd Miles, CAP)

Formed just six days before the Japanese attack on Pearl Harbor, Civil Air Patrol assumed a homeland defense role under the direction of the Office of Civilian Defense. The organization consisted generally of volunteer pilots, mechanics, and aviation enthusiasts who were not eligible for military service. Its initial missions included detecting and, in some instances, attacking Axis submarines along the Atlantic and Gulf coasts as well as locating survivors of ships sunk by those submarines. It also supported the nation's armed forces by providing courier services, conducting pilot training, and towing aerial targets for gunnery practice.

The role of Civil Air Patrol has evolved over the past 75 years. Today it is both a federally chartered, benevolent corporation and the volunteer auxiliary of the U. S. Air Force. CAP is the newest member of the Air Force's Total Force, which also has regular Air Force, Air National Guard and Air Force Reserve, along with Air Force retired military and civilian employees. 🇺🇸



Arkansas Wing Squadron Visits Military and Traffic Control Facility

by Maj Charles Rine, CAP, Arkansas Wing

ROGERS, Ark. – On Dec. 29, 2016, members of the 115th Composite Squadron, Rogers, visited air traffic control and military facilities at Fort Smith Regional Airport, Fort Smith, Ark. Representatives from the Federal Aviation Administration and Arkansas Air National Guard hosted tours for Civil Air Patrol members to show them what these facilities do and how the personnel trains; they also offered hands-on experience to help the visitors understand the complexity of the tasks involved.

FAA's "Razorback Approach" TRACON is a Terminal Radar Approach Control facility that uses eight radar screens to control just under 7,000 square miles of airspace over west-central Arkansas, eastern Oklahoma and southern Missouri, while Fort Smith Tower controls airspace within five miles of the airport. A premier FAA training site, the facility is staffed with fully-qualified air traffic controllers as well as trainees for radar and tower operations. Cadets learned what their various jobs entail, witnessed live interaction with flying aircraft, and discovered what is required to become an air traffic controller through military and private-sector career paths.

Certified Professional Controller Jim Fuhrman and Support Specialist David Gilmore conducted the tour, familiarizing CAP members with airspace, radar and communications. "I love being a training instructor and the training process," shared Fuhrman. "Learning never ends, especially in aviation. I hope my time with the cadets will spark something within them to consider a career with the FAA."

Arkansas Air National Guard's 188th Wing welcomed CAP to tours of the MQ-9 Reaper remotely piloted aircraft (RPA) trainer, Security Forces office and Public Affairs. Cadets heard about each group's mission, from day-to-day operations to how advantageous each experience can be in the world outside the military.

CAP members spent significant time in the MQ-9 trainer, rotating through duties as pilot and sensor operator. The 188th Wing flies their RPAs once airborne, with take-offs and landings conducted by line-of-sight ground crews located at the operating airfield. Training and real-world missions fly real-time over American deserts or theaters of operation around the world.

"As the pilot, I was able to maneuver the aircraft into place above the target and then fire Hellfire missiles and laser-guided bombs carried by the Reaper," said Cadet Airman Abigail Johnson. "As the sensor operator, I was responsible for maintaining the pilot's close-up visual of the target and then guiding the missile to the target via the laser guidance system. The staff called out some of the commands and communications that would be used on actual missions.

Getting to work with the MQ-9 simulator was a wonderful learning experience for me." 🇺🇸

Right: FAA controller and instructor Jim Fuhrman teaches cadets from the 115th Composite Squadron about the Razorback Approach airspace. (Photo: Maj. Charles Rine, CAP)



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Right: Cadet Airman Olivia Spafford presides over a table of CAP memorabilia. (Photos: Lt. Col. Jay T. Tourtel, CAP)

Below: (L-R) Prospective members discuss the benefits of CAP membership with squadron deputy commander Maj. Michael Eckert, and assistant aerospace education officer Senior Member Maurits Van Westenbrugge.



New Mexico Wing's Spirit Squadron Hosts Squadron Open House

by 2nd Lt. Michael R. Saul, CAP, New Mexico Wing

ALBUQUERQUE, N.M. – On Sept. 29, 2016, Albuquerque Heights “Spirit” Composite Squadron took advantage of its fifth meeting “Commander’s Discretion” initiative to host an Open House, where prospective members can see for themselves what the squadron does, and how it accomplishes its missions. The Open House was held at the squadron’s headquarters at the Heights First Church of the Nazarene in Albuquerque.

Guests could see tables devoted to CAP’s three main missions – Emergency Services, Aerospace Education and the Cadet Program – as well as other tables of interest. One table was devoted to the history of CAP, and included vintage uniforms, as well as an antique manual typewriter once used to write orders. Another table was devoted to Civil Air Patrol’s CyberPatriot Program, and how it helps cadets learn how to defend computer networks against cyber-attacks.

Another table, manned by Cadet Sponsor Member Leslie Little – whose daughter Bailey is now a third-class cadet at the Air Force Academy – provided prospective members and parents with information on how to apply to the service academies.

New Mexico Wing Commander Col. Mike Lee presented Civil Air Patrol’s Gen. Billy Mitchell Award to Cadet 2nd Lt. Davis E. Little, for successful completion of Phase II of CAP’s four-phase Cadet Program. Like his older sister, Little hopes to use his Civil Air Patrol training to help him in applying to the Air Force Academy.

Squadron’s adult officers were recognized as well. Charles Matthews, the squadron’s assistant professional development officer, was promoted to Lt. Col.

Attendees were also treated to a drill demonstration by the squadron’s cadets, and a presentation by squadron commander Capt. Mary A. Fox on the benefits of Civil Air Patrol membership. 🇺🇸





Top: The color guard from Prescott Composite Squadron 205 presented the colors at the opening ceremony of the AOPA Fly-in. (Photo: Lt. Col. David Alegre, CAP)

AOPA Fly-In Broke Attendance Records in Prescott, Ariz.

by Lt. Col. David Alegre, CAP, Arizona Wing

PRESCOTT, Ariz. – The Aircraft Owners and Pilots Association held four fly-in events in 2016, with the final one taking place in Prescott at the end of September 2016. Civil Air Patrol supported these events across the country by providing volunteers, setting up a static display, and staffing a booth in the exhibit area.

According to the AOPA website, a new fly-in attendance record was set, with more than 6,300 attendees coming to the association's Regional Fly-in at Ernest A. Love Field in Prescott. Some

The Fly-By, Southwest Region, January, 2017

565 aircraft flew in to the event, not quite reaching the aircraft record set earlier this year at the Fly-In in Bremerton, Wash. where 2,160 automobiles arrived at the airport. An estimated 275 volunteers shared their time to make the Prescott event happen.

Two Arizona squadrons made up the majority of the CAP volunteer group: Prescott Composite Squadron 205 and Verde Valley Composite Squadron 206. Approximately 45 cadets and senior members from throughout the Wing participated.

The attendees included members from Arizona Wing staff as well as Glendale, Deer Valley, Falcon, Verde Valley (Sedona), and Prescott squadrons. Lt. Col. Rob Pinckard and Maj. Wally Prokopow were the assigned ground team and were highly visible in their orange vests as they walked around the airfield with an Emergency Locator Transmitter Direction Finder device. Senior members and cadets took turns either in the exhibit hall booth or at the static display, talking to visitors about CAP. The two Yavapai County squadrons, located in Prescott and Sedona, Ariz., provided the bulk of the manpower, with 21 senior members and cadets from Prescott and 11 from Verde Valley.

AOPA supervisor Chris Eads and volunteer coordinator Elizabeth Hannon expressed their gratitude for CAP support. This was most critical at the Friday night dinner and Saturday lunch meals, as CAP members made up almost the entire food-serving staff.

Prescott Mayor Harry Oberg and City Councilman Jim Lamerson congratulated CAP for the performance of the Prescott squadron color guard at the opening ceremony on Saturday morning. The senior members working in the booth distributed recruiting literature and had one-on-one conversations with many visitors about why they should consider becoming CAP members. Cadets were also on hand to talk with younger visitors about the cadet program, and stepped in to discuss what it is really like to be a CAP cadet. Many visitors stopped by the static display to get a closer look at N365CA, the Cessna 182 assigned to the Prescott Squadron. The glass cockpit attracts pilots, many of whom stopped to ask questions of the CAP pilots who were staffing the display. 🇺🇸

Below: Lt. Col. Patrick Nixon (right) of Verde Valley Composite Squadron 206 talks with a prospective member at the CAP booth during the AOPA Fly-in. (Photo: Capt. Margot A. Myers, CAP)





Top: Members of Arkansas Wing's 115th Composite Squadron and Southwest Region Commander Colonel Mark Smith (front right) accompany F. Ward Reilly Leadership Award recipient and 115th CS Commander Maj. Charles A. Rine in celebration of their "Squadron of Distinction 2016" national title. (Photos: Capt. Brad Kidder, CAP)

Arkansas Wing Receives National, Regional Recognition

by Capt. Brad Kidder, CAP, Arkansas Wing

LITTLE ROCK, Ark. – Civil Air Patrol's Arkansas Wing garnered honors during the 2016 National Conference held on Aug. 11-13, 2016, in Nashville, Tenn., and the Arkansas Wing Conference on Oct. 1, 2016. Individual effort, squadron achievements, proactive cadet programs, defining leadership, and an outstanding record of safety all received due recognition at these events.

US Congressman French Hill, keynote speaker for the Arkansas Wing Conference in Little Rock, encouraged growth and thanked the Arkansas Civil Air Patrol, highlighting the "immense responsibility for CAP's volunteer personnel" and, as the Auxiliary Component of the United States Air Force, its substantial mission in the overall national defense structure.

Civil Air Patrol Southwest Region Commander Col. Mark E. Smith shared his vision for Arkansas Wing, speaking of his regional initiatives and the evolving nature of CAP's comprehensive mission. Significant points included CAP's ongoing transition to the Airman Battle Uniform (ABU), the colonel's "objective for a region-wide exercise involving all the Region's six states," and a schedule of upcoming national events culminating in the 2017 National and Regional Conference in San Antonio, Texas.



Above: (L-R) Cadet Col. Robby E. Jeffries (Spatz #2042) and Cadet Lt. Col. Zane Phillips receive Commander's Commendations from Southwest Region Commander Col. Mark Smith. Cadet Jeffries also received a Meritorious Service Award from Col Smith.

Arkansas Wing received the national Paul W. Turner Safety Award, reflecting a statewide dedication to protection of personnel and assets under the leadership of Wing Safety Officer Lt. Col. Joel Buckner, who visited each squadron in the Wing, meeting with unit safety officers to gain insight on needs and attitudes. This approach continues to yield specifically tailored resources, training and targeted safety briefings to mitigate mishaps. Buckner is a retired naval aviator, a member of the state's FAA Safety Team, and 2016 recipient of the Federal Aviation Administration's prestigious Wright Brothers Master Pilot Award recognizing 50 years of safe flying.

The 115th Composite Squadron of northwest Arkansas (Rogers) earned the National Squadron of Distinction Award, besting over 1600 competitors throughout the country. With successes in all three CAP missions – Emergency Services, Cadet Programs and Aerospace Education – the squadron participated in search and rescue (SAR) and disaster relief (DR) missions, conducted a Ground Team Academy and Mission Radio Operator Academy, flew cadet orientation flights, participated in patriotic holiday presentations such as the "Wreaths Across America" program, and participated in events with other aviation-based groups like the Experimental Aircraft Association's Young Eagles fly-In. Squadron Commander Maj. Charles A. Rine received the F. Ward Reilly Leadership Award.



Above: US Congressman French Hill (Arkansas 2nd District), keynote speaker for the Arkansas Conference, and Mrs. Martha Hill being greeted by Cadet Chief Master Sgt. Hannah Cheatham, Arkansas Wing Cadet Advisory Council Chairperson.

Lt. Col. John Gender, 95th Composite Squadron deputy commander for cadets in Texarkana, Ark., received the John V. “Jack” Sorenson Cadet Programs Officer of the Year Award. He single-handedly formed and trained a well-equipped color guard that routinely participates in Wing and community functions throughout Arkansas. Gender is credited with twice achieving the Quality Cadet Unit Award for the squadron by assuring that a high percentage of the squadron’s cadets participate in National Cadet Special Activities, Wing encampments, and other cadet activities.

Cadet Col. Robby E. Jeffries of Rogers received the Meritorious Service Award from Col. Smith for “clearly outstanding and unmistakably exceptional performance” as chairman of the Southwest Region Cadet Advisory Council and representative to National CAC. “You would make a fine national chairman” concluded Col. Smith. Additionally, Commander’s Commendations were awarded to Jeffries and Cadet Lt. Col. Zane G. Phillips of Prairie Grove for commendable service in uniform during a travel-related event while returning from the Region Conference in San Antonio.

Arkansas Wing Commander Col. Art Formanek awarded Commander’s Commendations to Lt. Col. Marina Scott of Rogers, Lt. Col. Larry Webster of Marion, Cadet Chief Master Sgt. Hannah Cheatham of Little Rock, and Texarkana Cadets Chief Master Sgt. Holleigh Amacker, Technical Sgt. Alexis Sims, Senior Airman Cecile Mobly, and Airman First Class Brianna Sims.

Lt. Col. Leonard Montgomery received the Southwest Region Inspector General of the Year Award. Lt. Col. Thomas Rae was presented his Certificate of Retirement from CAP.

During the Civil Air Patrol National Conference in Nashville not only did Arkansas Wing receive several awards, but also located a second World War II CAP veteran living in Arkansas. First Lt. Candace Serafin, Public Affairs Officer for Georgia Wing’s 116th Composite Squadron, identified her father, Mr. Ralph Watson of Fort Smith, Ark., as a CAP member during the war. Mr. Watson was vetted by national headquarters and on Oct. 20, 2016, received his Congressional Gold Medal for Service in World War II from US Senator John Boozman and US Congressman Steve Womack. 🇺🇸



Top: The cadets and senior members who attended the Spirit Squadron Awards Banquet. (Photo: Capt. Jane Lingenfelter, CAP)

New Mexico's Spirit Squadron Hosts End-of-Year Banquet

by 2nd Lt. Michael R. Saul, CAP, New Mexico Wing

ALBUQUERQUE, N. M. – On Dec. 15, 2016, New Mexico Wing's Albuquerque Heights "Spirit" Composite Squadron held its end-of-year awards banquet, hosted by Squadron Commander Capt. Mary A. Fox. The squadron Aerospace Education Officer 1st Lt. Maurits Van Westenbrugge served as the master of ceremonies.

The evening was a chance for squadron members to reflect on their accomplishments for the year, and to recognize members for outstanding duty performance during 2016.

The banquet was the last time the squadron met in 2016. It will resume its regular meeting schedule on Jan. 5, 2017. 🇺🇸



Top: Cadet Lt. Col. Kurt LeVan conducts the 77th Army Band. (Photos: 1st Lt. Kathy Sexton, CAP)

Oklahoma Wing Cadet Conducts U.S. Army Band

by 1st Lt. Kathy Sexton, CAP, Oklahoma Wing

BROKEN ARROW, Okla. – On Nov. 13, 2016, the Broken Arrow Composite Squadron cadet commander had the opportunity to put his command skills to a different note over the Veteran's Day weekend. Cadet Lt. Col. Kurt LeVan was a guest conductor with the 77th Army Band from Fort Sill, Okla., during a benefit concert at the Broken Arrow Performing Arts Center. "Being able to work with any military band is an incredible experience," LeVan said. "But being able to work with the 77th Army Band has been one of my top opportunities. I am so grateful for having had this chance."

Cadet LeVan has been studying music since middle school. He started playing trumpet at Centennial Middle School in



Broken Arrow on his sixth-grade year. "Kurt found his niche with music," said Loren Pettys, director of bands at Centennial. "He has the ability to do many things with a music career if he decides to go that route. Kurt can play any brass instrument. His instrument of choice is trumpet." LeVan studied with Pettys for three years in middle school, and still stays in touch by talking with him several times a year.

Music studies are important to Cadet LeVan. He has always enrolled in band classes in school, but he also does independent studies with Dr. Stephen Goforth of Tulsa, who specializes in trumpet but plays all brass instruments. "Kurt has a gift for music and loves what he does," Goforth said. "I was thrilled when Kurt was able to conduct with the 77th Army Band. Conducting puts Kurt's two loves together; leadership and music. If he can combine his top two life passions as a career, he will never work a day in his life because he will be doing what he loves to do."

As a middle school student, LeVan was named Broken Arrow Middle School Arts Student of the Year. Cadet LeVan is a senior at Claremore High School, where he is active with Marching Band and Concert Band. He will audition for Claremore Jazz Band in the Spring semester. LeVan received the Outstanding Service Award for Band on his junior year.

David Mudd, director of bands for Claremore Public Schools, said, "Kurt is a valued member of the Zebra Band (Claremore's mascot is a zebra). Kurt plays Euphonium, serves as our music librarian, and is a teaching assistant with the middle school band. Kurt fearlessly tackles new feats such as taking it upon himself to learn how to play clarinet by teaching himself unaided. Kurt always conducts himself in a positive, professional manner."

When asked when and where his music love first occurred, LeVan replied, "I didn't realize my love of music until middle school, and then there was no turning back. My great-grandfather was an orchestra leader during the 1950s. He played saxophone and clarinet. My first love of music is Big Band music from the 1940s; Glenn Miller is my favorite band leader. I think music is in my blood," he says with a smile.

LeVan plays trumpet, euphonium and trombone. He is competing for Oklahoma All State band positions this year with trombone and euphonium. Cadet LeVan is also working with other CAP wings to develop the Civil Air Patrol summer music program. He plans to audition for an Army Reserve band next year. After high school, Cadet LeVan will major in Music Education at Northeastern State University in Tahlequah, Okla. In the future, he hopes to be able to conduct an Air Force or Army band. 🇺🇸

Below: (L-R) Cadet Lt. Col. Kurt LeVan and 77th Army Band Leader Chief Warrant Officer Brenmark.





Top: (L-R) Maj. Michael Eckert of Albuquerque Heights “Spirit” Composite Squadron (accepting on behalf of Eagle Cadet Squadron), 1st Lt. William Wolfe of Los Alamos Composite Squadron, Capt. Mary A. Fox of Albuquerque Heights “Spirit” Composite Squadron, and Capt. Michelle Makin of LBJ Middle School Cadet Squadron receive the Quality Cadet Unit Award from New Mexico Wing Commander Col. Mike Lee. (Photo: Lt. Col. Jay T. Tourtel, CAP)

Four New Mexico Wing Squadrons Earned Quality Cadet Unit Award

by Lt. Col. Jay T. Tourtel, CAP, New Mexico Wing

SANTA FE, N.M. – Los Alamos Composite Squadron, Albuquerque Heights “Spirit” Composite Squadron, LBJ Middle School Cadet Squadron and Eagle Cadet Squadron all earned the Quality Cadet Unit Award for 2016. The certificates were presented at the New Mexico Wing Conference in Santa Fe on Nov. 5.

The award is presented to cadet and composite squadrons that excel in at least six of eleven program areas, including adult leadership, aerospace, cadet achievement, membership growth and retention. Squadrons can gauge their overall strength, and wing leaders can identify those units that are flourishing and encourage their leaders to mentor other units. 🇺🇸



Top: US Senator John Boozman (left) and US Congressman Steve Womack flank Mr. Ralph Watson as they present him with the Congressional Gold Medal. *(Photos this page: Capt. Brad Kidder)*

Below: Prior to the Congressional Gold Medal Award presentation ceremony, CGM recipient Ralph Watson autographs CAP's January 2015 "Volunteer" magazine for family and distinguished guests.

Arkansas Wing World War II Veteran Receives Congressional Gold Medal

by Capt. Brad Kidder, CAP, Arkansas Wing



FORT SMITH, Ark. – On Oct. 20, 2016, US Senator John Boozman and Congressman Steve Womack presented Mr. Ralph Butler Watson with the Congressional Gold Medal for his service in World War II in a standing-room-only event held at the 83rd Composite Squadron headquarters in Fort Smith. This award, the highest civilian honor that Congress can bestow, was approved in 2014 by the 113th US Congress to recognize the service and dedication of Civil Air Patrol's WWII volunteers.

Ralph Watson grew up near Phoenix in the farming community of Gilbert, Ariz. "If your grades are good enough, you can go into

Civil Air Patrol,” Mr. Watson heard, and this led him to join the CAP squadron in Chandler. He attended meetings with about twelve other cadets under the tutelage of a motivational Chandler mathematics teacher. With no airplane to fly, they primarily studied from Civil Air Patrol textbooks.

Right: Congressional Gold Medal recipient Ralph Watson with daughter 1st Lt. Candice Serafin, Georgia Wing. Watson is patriarch of three, soon to be four, generations of Civil Air Patrol volunteers. (Photo: Maj. Maranda Leeper, CAP)

Below: CAP Cadet Ralph Watson (center), circa 1943. (Watson family photo)

“Things came easy to me, doors just opened. My math teacher was a great teacher. He taught me to love math and physics,” recalls Watson. Intending to become an aeronautical engineer, Watson worked at nearby Williams Army Air Corps Base, preparing Beech-18 engines for installation. He and a friend built balsa wood model airplanes, mowing lawns for 25 cents so they could buy an Ohlsson & Rice engine for their “Spook” aircraft. “But we didn’t have the money to buy a timer. It was a wonderful, inverted gull-wing craft which flew beautifully,” he said. “It flew like a dream. Once. Off into an orange grove. It just... kept going. We never saw it again.”

Ralph graduated salutatorian of Gilbert High School’s class of 1944. First wanted to join the Navy who turned him down for depth-perception problems, so he joined the Army Air Corps Enlisted Reserve for training in mathematics, physics and chemistry at Montana State College (Bozeman). The war in Europe ended in May, 1945, leaving him with an Honorable Discharge before the age of eighteen. Undeterred, Watson joined the Merchant Marine and was still in basic training when Japan surrendered that August. However, he stayed in, serving for three and a half years as an able-bodied seaman aboard the liberty ship “John G. Whittier.”

Eventually, Mr. Watson returned to Arizona to raise a family and work his farm. But the government had other needs, drafting him in February, 1951, for service in the Korean War, during which he served as a combat engineer building roads and laying minefields. He graduated from the NCO Academy in 1952, transferred to the Army Reserve in 1953, and was honorably discharged on Oct. 24, 1956.

Ralph Watson is patriarch to three generations of volunteer service in Civil Air Patrol. His daughter Candice serves in the Georgia Wing, and her son Scott is a former CAP cadet now on active duty with the US Army. In March, 2017, Ralph’s great-grandson Grant will join the Arkansas Wing as he celebrates his 12th birthday and becomes the fourth generation of the family to serve in Civil Air Patrol. 🇺🇸





Top: Col. Brooks Cima and Maj. Ric Walters display Coast Guard Awards. (Photos: Maj. Audrey Morrow, CAP)

Texas Wing Members Honored by U.S. Coast Guard

by Maj. Audrey Morrow, CAP, Texas Wing

HOUSTON – On Oct. 5, 2016, at a ceremony held at U.S. Coast Guard Sector Houston-Galveston at Ellington Field, Col. Brooks Cima and Maj. Ric Walters were presented with Commandant of the Coast Guard Certificates of Merit for their work in coordinating Civil Air Patrol participation in the HURREX 2016 Joint Agency Exercise in February 2016.

Col. Brooks Cima, a former Texas Wing commander, is currently the national chief of strategic planning and Texas Wing historian. Maj. Ric Walters is the former commander of Texas Wing Group IV and is currently the Texas Wing homeland security officer.

HURREX 2016, a Category 3 full-scale hurricane exercise, incorporated fourteen state, local and federal agencies. It was the largest exercise of its type in the U. S., led by Coast Guard Sector Houston-Galveston Commander Capt. Brian Penoyer, along with Cdr. Shannon Pitts as planning chief, and Coast Guard Air Station Houston Commander Cdr. Greg Massello. Civil Air Patrol's Texas and Louisiana Wings participated in the response phase of the exercise, along with aviation assets of the Coast Guard, Texas Army National Guard, Texas Department of Public Safety, Harris County Sheriff's Office, and the Houston Police Department, engaging in exercises that simulated the aftereffects of a major hurricane, such as tornadoes, heavy flooding, and terrorist activities.

A similar exercise was held in 2015, also led by Cdr. Shannon Pitts, with most of the same agencies participating. That year, the Coast Guard planned the entire scenario, including flight plans, grids to be flown, altitudes and radio frequencies. Recognizing that multiple agencies would be involved in the post-hurricane response, Cdr. Pitts invited the Civil Air Patrol to participate in that exercise. Maj. Walters served as the liaison officer during the Airspace Deconfliction Exercise that followed, while Col. Cima served as incident commander for Civil Air Patrol assets. As a result of Civil Air Patrol assets' having participated in the planning and operational phase of that exercise, the Civil Air Patrol was added to the Houston Area Air Operations Plan and to the planning teams for future exercises.

HURREX 2016 proved Civil Air Patrol's extensive capabilities. Col. Cima and Maj. Walters had major roles in developing the first Air Coordination Plan for the region. This involved many weeks of work devoted to putting together the best team possible. A CAP Incident Command Post was set up in the Coast Guard Air Station Houston Conference Room. Aircrew qualifications were checked. Each crew consisted of a pilot, mission observer, and mission scanner/airborne photographer. All aircraft were flight-ready, grids were planned, altitudes were determined and radio frequencies coordinated. Photographs were transmitted to the Coast Guard. Over 200 scenarios were developed. Keen attention to detail ensured realism for the over 350 participants, contributing to this exercise's success.

Col. Cima said, "Participation in this type of exercise is critical to the success of Texas Wing. In the HURREX, we interacted with many state, local and federal agencies in a setting where our abilities were demonstrated broadly and in real time. There is no amount of conversation or written presentation that can demonstrate our skills so clearly or efficiently." 🇺🇸

Below: During HURREX 2016, Maj. Jawad Sultan and Col. Brooks Cima work at planning sorties.





Top: (L-R) 2nd Lt. Michael R. Saul, public affairs officer of Albuquerque Heights “Spirit” Composite Squadron, receives Civil Air Patrol’s Certificate of Recognition for Lifesaving from New Mexico Wing Commander Col. Mike Lee. (Photo: Lt. Col. Jay T. Tourtel, CAP)

Saul Receives Certificate of Recognition for Lifesaving

by Lt. Col. Jay T. Tourtel, CAP, New Mexico Wing

SANTA FE, N.M. – At the New Mexico Wing Conference on Nov. 5, 2016, 2nd Lt. Michael R. Saul, public affairs officer of Albuquerque Heights “Spirit” Composite Squadron, received Civil Air Patrol’s Certificate of Recognition for Lifesaving.

On Aug. 8, 2016, while vacationing with his family at Ontario Beach Park in Rochester, N.Y., Saul was swimming with his brother James when he heard a cry for help.

Saul swam to the source of the cries and saw a young boy, about eight or nine years old, who had swum out to the marker buoys, about 100 yards from shore, that marked the outer boundaries for safe swimming in the park. Saul swam to the boy and calmed him down. He asked the boy if he had gone out too far, and the boy said yes. Saul gently held the boy’s torso between his hands and towed him back to shore, where the boy was reunited with his family. Although the boy did not require any medical attention, Saul’s quick and decisive action averted a potential tragedy for the boy and his family.

Saul credits his quick response to the leadership training he has received in Civil Air Patrol for the past six years: five of them as a cadet, and then last year when he transitioned into senior program at age 21. He also credits his self-discipline to his training in martial arts, which he has been practicing since 2012.

“I have loved and continue to love participating in Civil Air Patrol and my dojo,” Saul said. “I got a lot of good things out of both of these programs.” 🇺🇸



Texas Wing Conducts Airborne Photographer Ground School

by Lt. Col. Michael Turoff, CAP, Texas Wing

HOUSTON – On Oct. 8, 2016, Group IV's Hobby Senior Squadron and Baytown Senior Squadron hosted an Airborne Photographer (AP) ground school class at the Hobby Airport Conference Room A in the main terminal building. Instructors were Lt. Col. Don Fisher, Maj. Greg Prewitt, and Lt. Col. Michael Turoff. The students were 2nd Lt. Mark Austin, S.M. Albert Ball, S.M. Paul Bauer, Lt. Col. Robert Beeley (recurrency), S.M. Peter Bogardus, 1st Lt. Ronald Figgs, 1st Lt. Christi Graham, 2nd Lt. Fred Guy, S.M. Gulam Hameed, 2nd Lt. Michael Luce, Flt. Ofc. Christopher Mathiason, S.M. Kenneth Naff, 2nd Lt. Rafael Paiva, S.M. John Rittinghouse, and Capt. Steven Roberts

Many of the subjects from the National Emergency Services Academy and the LoneStar Emergency Services Academy programs were covered during the course of this class, preparing the students to work with SET-qualified personnel in order to complete the tasks listed on their Student Qualification Training Requirements, so that they can become fully functional AP rating holders. 🇺🇸



Top: (L-R) Socorro Composite Squadron Commander Maj. Dennis Hunter, New Mexico Wing Commander Col. Mike Lee and squadron Public Affairs Officer Lt. Col. David Finley participate in the cake-cutting ceremony. (Photos: Courtesy of Mr. Perry Johnston)

New Mexico Wing's Socorro Squadron Celebrates CAP's 75th Anniversary

by Lt. Col. David G. Finley, CAP, New Mexico Wing

SOCORRO, N.M. – On Dec. 1, 2016, the Socorro Composite Squadron celebrated Civil Air Patrol's 75th anniversary by inviting the community to an open house marking the event, with a historical presentation, a promotion ceremony and a traditional cake-cutting.

Socorro members, guests, and community members, including some potential recruits, attended the celebration at the Socorro County Annex Building, which also houses the county's Emergency Operations Center. Dignitaries included New Mexico Wing Commander Col. Mike Lee, four members of the Socorro City Council, and Dr. Van Romero, senior vice president of New Mexico Tech.

After an introduction and recognition of guests, Squadron Commander Maj. Dennis Hunter welcomed those present. He thanked the community, and particularly both the City and County governments, for their support of CAP and the squadron.

Barbara Romero, District Director for U.S. Rep. Steve Pearce, presented the squadron with a certificate congratulating CAP on its 75th anniversary.

Next, Col. Lee administered the promotion oath to former Cadet Col. Hugh Shortt, who received the Gen. Carl A. Spaatz award in September, reached age 21 and became a senior member. As a Spaatz cadet, Shortt was entitled to start his senior member career as a captain. Following the swearing-in, Shortt had his new rank insignia pinned on.

In a presentation entitled, "Ragwings vs. U-Boats," Lt. Col. Dave Finley recounted the story of the CAP coastal patrols during World War II. The talk pointed out the urgent need that gave CAP members the job of helping counter the German submarines that were sinking merchant ships along the U.S. east coast in 1942 and 1943. These CAP members who took on this task established a high standard for service that set the tone for the organization's future.

Historical posters produced by CAP's National History Program were on display in the meeting room, along with recruiting brochures and information about the local squadron. These posters gave an outline of CAP's history from its founding to the present.

Newly-minted Capt. Shortt, in a brief talk aimed at potential recruits and cadet parents, spoke about the benefits and rewards of CAP membership to both cadets and senior members. He specifically outlined a number of the opportunities for growth and leadership available to cadets.

The celebration concluded when Lee, Hunter and Finley joined in cutting the anniversary cake with a highly-polished ceremonial sword. The photo with the sword was featured in the local newspaper, along with an article about the event. 🇺🇸

Right: (L-R) Wing Commander Col. Mike Lee administers the CAP promotion oath to new Capt. Hugh Shortt.





Top: Maj. Mark Schadt (right) accepts the squadron's flag as a symbol of command from Lt. Col. Heather Muehleisen. In the background, outgoing Squadron Commander Capt. Jeffrey Landtiser. (Photos: Capt. Margot A. Myers, CAP)

Change of Command at Arizona Wing's Largest Squadron

by 2nd Lt. Gordon Helm, CAP, Arizona Wing

PHOENIX —On Nov. 28, 2016, Arizona Wing Vice Commander (West Sector) Lt. Col. Heather Muehleisen officiated at the ceremony transferring command of the Deer Valley Composite Squadron 302 from Capt. Jeffrey Landtiser to Maj. Mark Schadt. More than 100 senior members, cadets and guests gathered in the squadron's hangar for the event. Squadron 302's award-winning Honor Guard presented and retired the colors, while squadron Finance Officer Capt. Brian Tucek played the National Anthem to open the ceremony.

The change of command followed a cadet awards ceremony. Two General Billy Mitchell Awards were presented to cadets who completed Phase II of the cadet program. Cadet 2nd Lts. Reyna Armbrust and Riley Boyle received the Mitchell Award. Also, a number of other cadets were recognized for their promotions or achievements.

The change of command itself is a simple event steeped in tradition and rich in military history. It is a formal symbolic passing of responsibility, authority and accountability of command from one leader to another.

Outgoing Squadron Commander Capt. Jeffrey Landtiser thanked the senior members and cadets for their support and singled out his senior staff for "getting the real work done."

Incoming Squadron Commander Maj. Mark Schadt told the audience that he is ready to meet the challenge of serving as 302's leader. "Command of such a storied and accomplished squadron is a cherished and honored opportunity for me, and I will do my best to represent the men and women of this fine squadron," Schadt said. "My role as your commanding officer will be to foster a welcoming environment for all, where everyone's vision and motivation will be realized. My mission and that of our dedicated members is to ensure Squadron 302's continued and unparalleled contributions to the Arizona Wing, the State of Arizona, the United States Air Force and Civil Air Patrol."

Schadt began his Civil Air Patrol career in 1982 as a cadet with the Triad First Flight Composite Squadron in Greensboro, N.C. He achieved his General Carl A. Spaatz Award in 1986. Schadt was commissioned an ensign in the U.S. Navy in 1989 and became a naval aviator in 1991.

After retiring from the Navy, Schadt resumed his Civil Air Patrol career with the Maryland Wing and St. Mary's Composite Squadron, focusing on the cadet program. Upon relocation to Phoenix, he joined Squadron 302 in 2015, where he has served as assistant deputy commander for cadets and deputy squadron commander.

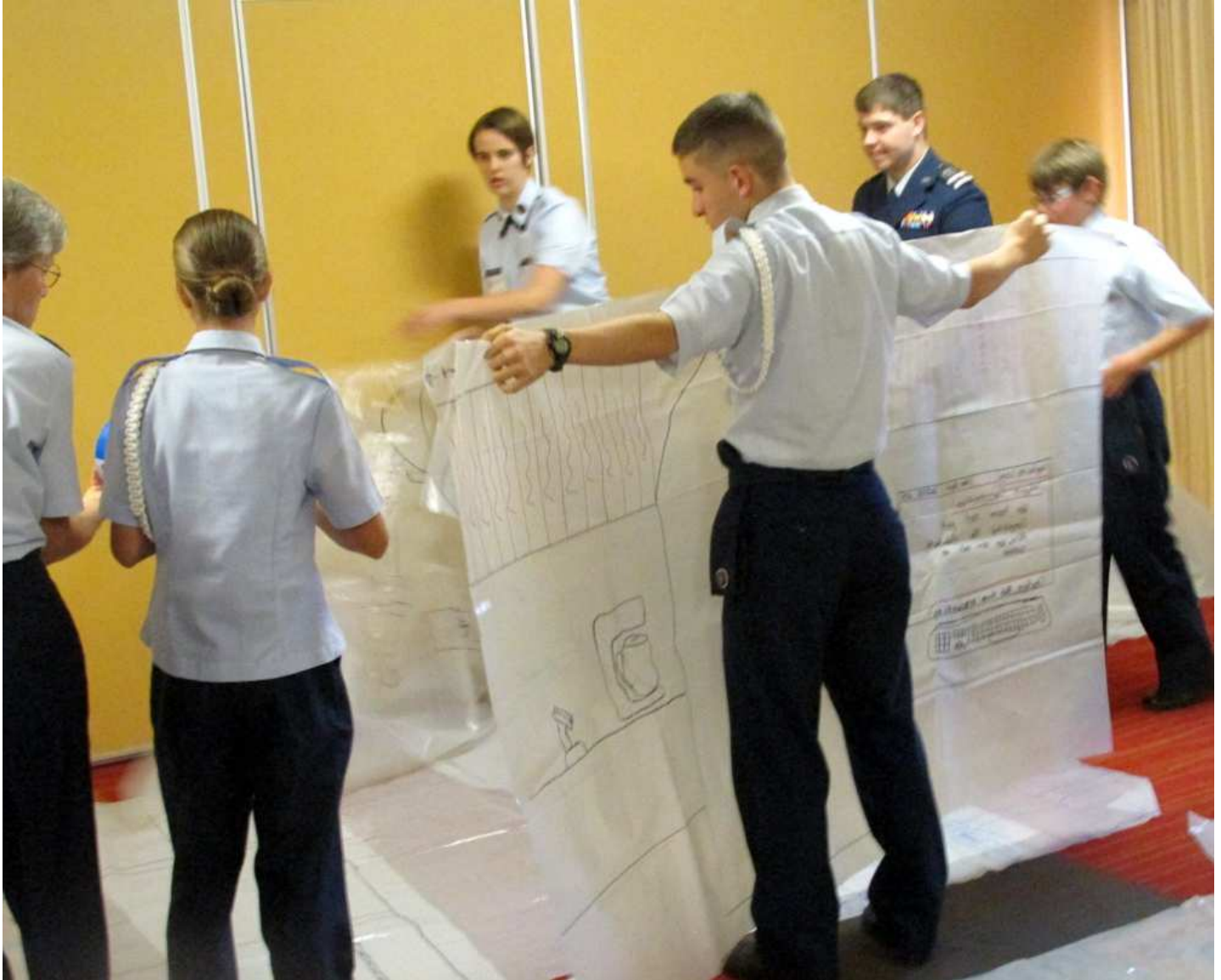
Currently, Schadt is a first officer flying with Southwest Airlines based in Phoenix, and serves part-time as an RQ-4A Global Hawk Air Vehicle Operator with Northrop Grumman Corporation.

Since the change of command ceremony occurred just days before the 75th anniversary of the founding of Civil Air Patrol, the program included a short history lesson. In 1957, just 10 years after the Civil Air Patrol was formally adopted as the official auxiliary of the newly-formed U.S. Air Force, CAP headquarters granted a charter to the Arizona Wing for Air Rescue Service (ARS) Squadron 302. In March of 1946, the ARS was established under the Air Transport Command to provide rescue coverage for the continental United States.

In 1990, CAP headquarters changed the charter name to Deer Valley Composite Squadron 302. The squadron is currently the largest in Arizona Wing, with almost 90 cadets and more than 50 senior members. 🇺🇸

Right: (L-R) Capt. Jeffrey Landtiser, Cdt. 2nd Lt. Riley Boyle, Cdt. 2nd Lt. Reyna Armbrust and Maj. Mark Schadt





Top: Cadets from Santa Fe Composite Squadron construct their Martian Habitat. (Photo: Lt. Col. Jay T. Tourtel, CAP)

Four New Mexico Wing Squadrons Compete to Build Martian Habitat

by 2nd Lt. Michael R. Saul, CAP, New Mexico Wing

ALBUQUERQUE, N. M. – On Nov. 5, 2016, New Mexico Wing's Santa Fe Composite Squadron, Belen Middle School Cadet Squadron, Albuquerque Heights "Spirit" Composite Squadron and Socorro High School Cadet Squadron competed in the Mars Habitat Mission during the New Mexico Wing Conference.

The competition's objective was for each team to build a model habitat to represent possible housing on Mars. By applying Science, Technology, Engineering and Mathematics (STEM) concepts, the cadets made an effort to understand life on Mars and the limitations presented to astronauts who would have to construct housing there.

In this exercise, the cadets had only one hour of simulated oxygen to enable them to construct and inflate their habitats.

All four squadrons won in some capacity. Santa Fe had the best-decorated habitat. Belen's habitat was the first to inflate; however, the tunnels were not connected to other habitats. Spirit Squadron's habitat inflated at the last moment, before the cadets' oxygen "ran out." Finally, Socorro was the first to construct and inflate their habitat, well under the allotted hour.

In addition to the academic benefits, cadets also learned teamwork, and in the process had fun. Capt. Jane Lingenfelter, the event's organizer, has planned a trip to the Challenger Center in Las Cruces for all squadrons involved. 🇺🇸



Texas Wing Conducts Mission Scanner Ground School

by Lt. Col. Michael Turoff, CAP, Texas Wing

HOUSTON – On Sept. 14, 2016, Group IV's Hobby Senior Squadron hosted a Mission Scanner ground school at the Million Air facility at Hobby Airport. Instructors were Lt. Col. Michael Turoff and Lt. Col. Don Fisher. Students were 2nd Lt Mark Austin, 2nd Lt Bob Baldwin, S.M. Albert Ball, S.M. Peter Bogardus, 1st Lt Ronald Figgs, Flt. Ofc. Christopher Mathiason, S.M. John Rittinghouse, Capt. Steven Roberts, S.M. Samuel Rochet

All the subjects from the National Emergency Services Academy and the LoneStar Emergency Services Academy programs were covered during the course of this class, and this prepared the students to get together with SET-qualified personnel to complete the tasks listed on their Student Qualification Training Requirements, so that they can become fully functional Mission Scanner rating holders. 🇺🇸





Guest Editorial – Memorial Day

FRISCO, Texas – Over many years, on Veteran's Day, I have established a sort of personal tradition of sending an email to every veteran I know to say, "Thank you." At some point my emails started to become somewhat philosophical, but that's the way I am. This year I am feeling a little more philosophical than usual, because the election cycle that just concluded was one of the most difficult to watch of any in my adult life.

Several times this year I've had the pleasure of finding myself in Washington. On one of those days I spent an entire day walking the length of the National Mall, starting at the Supreme Court building just on the other side of the Capitol and working my way all the way down every museum and monument, all the way to the river. That path took me by the memorials to veterans of World War II, and also Vietnam. Once I reached the Lincoln Memorial and the Potomac River, I continued on foot across the bridge into Arlington National Cemetery. At the end of that day, I stood silently to watch the changing of the guard at the Tomb of the Unknown Soldier. It is impossible to spend a day like that, surrounded by the profound history of our nation, and not come away with a sense of wonder, and at least a small degree of concern that the living generations owe a debt to those who came before us to continue to be worthy of the gift that was handed to us as citizens of the United States of America.

Sometimes in the heat of an election season it might be easy to forget that no matter what side we find ourselves on, there is a fundamental decency and honor that defines who we are as Americans. History makes it clear that we didn't always get things right the first time we tried something, but one of the defining threads throughout our history is that we never stopped trying to get it right.

Three days ago, these thoughts were in my mind as I drove to my local polling place to cast my vote on the direction I believe America should take over the next four years. How I voted does not matter, because what I want to share with you is my gratitude that while casting my vote cost me roughly fifteen minutes of my day, my right to drive to a polling place and cast that vote has a cost that can only be measured in the sweat, blood, and lives of countless people who came before me, swore an oath to serve, protect and defend, and lived up to that oath.

This evening, on this Veteran's Day, I am thinking of all of you as I appreciate how amazing my country really is. I know that it is easy to think that our political system is insane (and maybe it is, sometimes), but remember that even after all the drama, the sun still rose on the next morning, we all woke up to head to work, and the business of our nation did not stop. The day after the election we just went on living. And on Inauguration Day in January, our country's executive leadership will transition peacefully from one custodian of that authority to the next. This will happen because in America that's how we roll. That's who we are. In many other parts of the world a transition of power such as this is nearly inconceivable, but not here. Our democracy is strong and enduring because as a nation we are fundamentally decent and honorable.

You might think that in a world fraught with danger and peril a nation like ours might be at risk, and you'd be right. But we've lasted like this for nearly two and a half centuries because you, and people like you, swore an oath to make sure America would last into the next generation.

And this brings me back to Veteran's Day. You, and all the veterans who came before you, are the bedrock upon which our history has been written. Thank you for your service.

Please accept my gratitude on this Veteran's Day. 🇺🇸

(Photo: Cdt. Tiffany Hamm, CAP)

Lt. Col. Owen Younger, CAP, Texas Wing

On Language

The Problem with He, She and They

AUSTIN, Texas – For a very long time, especially after 1066 when the Normans invaded Britain, the English personal pronoun *he* was understood to mean an individual male or, when used in an impersonal sense, include both the male and the female genders. However, in recent times, feminists have resented this and insist on using *he or she*, *he/she*, or even *s/he*, when the rest of the Western world accepts the old usage, especially in the Romance languages. And German (the modern-language equivalent to England's Anglo-Saxon and Old English) also accepts the same language convention as the Romance languages.

Roughly, in all these languages, the sentence *Man, as a sentient creature, is entitled to his rights* includes the concept of “male and female” in that *his*. Why is that?

If we turn the clock back some 2000 years, and understand that the language of William the Conqueror and his Normans (what we call Anglo-Norman) was really the French *Langue d'oc* that is the forerunner of Occitan and Provençal, and was directly descended from Vulgar Latin, we see once again how Rome influenced the creation and development of languages across Europe.

In Latin, *homo* (as in *homo sapiens*) means “man” in the sense of humanity or mankind (to use the Latin root first, and the Anglo-Saxon root second) and it is a masculine noun. You might be surprised to know that the Anglo-Saxon *Man* (a language brought over from Germanic lands and the foundation of Old English) also meant *mankind* and was a masculine noun. The problem is that in modern English neither humanity nor mankind have a singular, and that has become linguistically troublesome.

When Romans wrote *homo*, they meant a member of humanity or a human being. However, since it was a very clear language, Latin also had a specific word for a male human being, and that was *vir* (as in the English *virile*). So, when they wanted to write about a male, they used *vir*. And, for a chaste woman, they used *virgo*. And we cannot but notice the correlation between *man/woman* and *vir/virgo*.

If we fast-forward to the present day, with an overwhelming majority of people who are not conversant with Latin but express themselves in English daily in America, it was inevitable that the broader meaning of the original *man* would be lost and the noun restricted to just the male of the species, and therefore this logic prevented the personal pronoun *he* from applying collectively to a female of the species. This is a direct result of English not having (or having lost) an equivalent to the Latin *vir* and being forced to use *man* as a dual-purpose noun.

Most people accept that *man* is not *woman*, and since there is no broader meaning attached to *woman*, the reverse logic of whittling down *man* to mean only the male of the species regrettably seems to have become appropriate.

Let us examine this thought by quoting a time-honored expression that is still valid. *To each his own*. Why should *each* be a masculine? Why not *To each her own*? And even the worst offenders will reject *To each their own* (I hope). The reason goes back to Latin, because *each* in this case means *each one*, and *one* is a masculine, as it is in Latin, German, and all Romance languages (as in *one*, *ein*, *uno*, *un*, and so on) are all masculine. In fact, “one” comes from the Proto-Indo-European *oi-no* that is a masculine. Also, *each* is not a noun but *one* is, and the subject of a sentence must be a noun or a noun equivalent. In *To each his own* it isn't that *each* has become an honorary noun or that it is a noun equivalent, it is simply a case in which *one* is tacit, but even in its absence it calls the shots in a grammatical sense.

The above was abundantly clear to earlier generations who had at least a passing acquaintance with Latin, French or German, but the loss of emphasis on studying a language other than English has resulted in the fossilization of American English and its re-invention along political and sociological lines, rather than linguistic considerations.

When at one time *The worker learned his trade* was perfectly correct, that *worker* embodied both the male and the female (since English lacks the flexibility of gender specificity, that in

Spanish, for instance, would be *trabajador* and *trabajadora*). Therefore, ignoring language origins and development altogether, the politically-correct version of the above would be *The worker learned his or her trade*, or *The worker learned his/her trade*, and less likely (but now quite possible) *The worker learned their trade*. Rather than expanding the intended meaning, these wordy versions simply display the user's linguistic shortcomings.

At which point did *their* become a neuter singular? If you don't think that *The worker learned their trade* might be ridiculous, let's put it in the singular and use the appropriate singular pronoun, and we get *The worker learned its trade*. But instead of adding the female, this reduces all workers to neuter objects. Most people that would cringe at this singular version would happily use the absurd *their* instead. Wouldn't it be easier to accept the original concept and let *his* do double-duty as *his* or *her*?

Unfortunately, schools do not really teach grammar or syntax, and machine-grading of essays only takes into account the use of some key words, therefore, if the right words show up, the grade can be the highest, even if the text is barely coherent and grossly misspelled. The problem is compounded by textbooks that, in order to give "equal play" to both the male and the female, use "impersonal" sentences that are correctly written for the male gender in one paragraph, and for the female gender on the following paragraph, continuing in this vein until the chapter's end. It has yet to be established whether this use of the English language has any effect on the target children's chosen gender identity.

Why did American education literally paint our children into a mono-linguistic corner? German was taught in schools as an elective language for many years, but the effects of WWI and WWII dealt a death blow to that part of our curriculum. Latin was pronounced a dead language and, since it was very difficult to teach to children who did not know the grammar and syntax of their own language, it was largely abandoned on the pretext that it was irrelevant in the context of contemporary civilization. And French, being equally hard for the same reasons as Latin, also fell out of favor. However, Spanish is on the rise, mostly because the number of Spanish-speaking Americans continues to increase.

There was a time when a student could not graduate from high school without having taken a foreign language. In their infinite wisdom, some school districts hit upon allowing for substitution, and mathematics was deemed "equivalent" to a foreign language. Granted, mathematics is a discipline based on logic, and computer languages depend on logical constructs, but neither will be of any help in acquiring and developing [human] language skills.

On a different slant, it is common for people to accept things superficially, without bothering to find the reasons for them, or their background. Take, for instance, "racing stripes," those wide twin white bands painted or applied to the hood of a car and continued over the roof and trunk. Those who are not familiar with formula racing might think that they belong on every race car, and therefore car makers offer their powerful sporty automobiles with optional racing stripes.

When you see a grown man happily driving down the road in his new, expensive muscle car adorned with racing stripes, it will be obvious to you that he is unaware that those stripes are meant as a cautionary signal to all other drivers in the race, as they mean, "Danger. New Driver."

As an editor, being aware of my role as an educator as well as a provider of good writing, I consider it my duty to edit out all those instances of *he/she*, *his/her*, *s/he*, and *their* pointed above on any article submitted to me for publication.

I am fully aware that good writing can have a profound influence on The Fly-By's readers, many of whom are cadets. Over the years, some of this publication's cadet readers and contributors have chosen a military career and gained early success thanks to their superior writing and communication skills. Others have become print and broadcast professionals. All of them have reached their goals and embarked on a career that heavily relies on their language skills. I remember them well. 🇺🇸

Lt. Col. Arthur E. Woodgate, CAP
SWR Director of Public Affairs

The Safety Corner

Distracted Walking a Major Pedestrian Safety Concern

Distracted driving is a well-established problem, so much so that many states currently have

bans in place when it comes to using technology while driving. But the problem of distracted walking is a relatively new one. Each year, increasingly more people are injured as a result of texting, talking or listening to music while on their cell phones. And while we might laugh at the woman who falls into the fountain while texting, or the man who walks into a wall while texting, the problem of distracted walking is a very real and serious one.

According to data from the National Highway Traffic Safety Administration (NHTSA), nearly 5,000 pedestrians were killed and an estimated 76,000 injured in traffic collisions in the United States in 2012. That is one death every 2 hours and an injury every 7 minutes. While it is not clear how many of these are a direct result of distracted walking, the total rate of pedestrian fatalities compared to overall road deaths is getting worse each year.

The issue has become such a problem that some cities, such as Fort Lee, New Jersey, have banned texting while walking. If caught texting while jaywalking in that town, violators face an \$85 fine. In London, England, some lamp posts have been padded in order to protect the large numbers of people using their mobile devices while walking. Even New York City has lowered the speed limit in some areas as a way to help cut down on the number of pedestrian injuries. Arkansas, Illinois, and New York have all tried unsuccessfully to ban using a mobile device while walking.



Common risks associated with distracted walking include:

- Injuring someone else
- Trips
- Sprains
- Strains
- Fractures
- Cuts
- Bruises
- Broken bones
- Concussions
- Brain injuries
- Spinal cord injuries
- Death

In 2008, more than 1,000 people were injured seriously enough to seek medical attention at the emergency room as a result of texting and walking – double the previous year (which in turn had been double the year previous to that).

A study published in 2012 by researchers from New York's Stony Brook University found that those who texted while walking were 60 percent more likely to veer off line than non-texters.

Scientists call the phenomenon "inattentive blindness," saying that the human brain has evolved to only be able to adequately focus attention on one task at a time. So, when you are texting or talking on the phone while trying to walk, you cannot give your full attention to both tasks.

"We were surprised to find that talking and texting on a cell phone were so disruptive to one's gait and memory recall of [a] target location," wrote Eric M. Lamberg, PT, EdD, co-author of the study and Clinical Associate Professor, Department of Physical Therapy, School of Health Technology and Management, Stony Brook University.

"People really need to be aware that they are impacting their safety by texting or talking on the cellphone," he added, "I think the risk is there."

When Safe Sound Family analyzed the data in the Consumer Product Safety Commission's (CPSC) National Electronic Injury Surveillance System (NEISS) – which estimates the number of injuries nationwide based on reports by 100 participating hospitals – we found that there were nearly 5,000 estimated cases of injuries caused by phones and phone accessories that occurred on roads or highways and in other public places (not at home) that were treated in hospital in the United States in 2013.

The number of actual injuries caused by distracted walking is bound to be quite higher than this, as the data from the CPSC only looked at those injuries which resulted in medical treatment at a participating hospital, and minor injuries were likely treated at home or another medical treatment facility not included in the reporting data. There is also the stigma and shame associated with reporting an injury in which one is partially at fault, and so some people may not have been upfront with the fact that they were using a mobile device when their injury occurred.

It is not just texting while walking that is a problem. Talking, checking email, using social networking apps and even playing games all contribute to the problem of distracted pedestrians.

According to data via the National Highway Traffic Safety Administration, the highest percentage of pedestrian deaths relative to all traffic fatalities occurs in New York City (51%), Los Angeles (42%) and Chicago (30%). After years of decline, pedestrian deaths have started to increase since 2009, and while there are no reliable statistics directly related to cell phone use, experts speculate that the increase is due in part to distracted users on their cell phones while walking.

"We are where we were with cellphone use in cars 10 years or so ago. We knew it was a problem, but we didn't have the data," Jonathan Akins, deputy executive director of the Governors Highway Safety Association, told the Associated Press in 2012.

Caitlin McCormick
www.safety.com

How the Southwest Region Public Affairs Awards Program Works

Starting with the July, 2015 issue of The Fly-By, Southwest Region Commander Col. Mark Smith has decided to continue the January, 2013 directive of then Southwest Region Commander Col. Frank A. Buethe in that region will recognize contributions to The Fly-By as follows:

1. A SWR **CAP Achievement Award** for article publication on three different issues of The Fly-By. Multiple articles in the same issue will count as one.
2. A SWR **Commander's Commendation Award** for article publication on an additional six different issues. Multiple articles in the same issue will count as one.

Region will issue the certificate and send it to the winner's unit at the first available opportunity. The award certificate will be presented at the first available opportunity.

How to Make Submissions Suitable for Publication

Since The Fly-By is posted on the SWR website, it is an external communication. Therefore, as required by CAPR 190-1, Sec. 7.b.(7), articles must be written in Associated Press Style. If a submission that is not in AP Style is selected for publication, it will be edited to this standard. (NHQ/PA has been using AP Style for all external communications since 2005.)

AP Style is defined in the Associated Press Stylebook (available at www.ap.org). For a brief summary, please see "Associated Press Style in a Nutshell," overleaf.

"Article" is defined as a narrative that:

- Is written in AP Style;
- Answers the questions Who, What, When, Where, and Why, and preferably also How;
- Has one or more quotes from participants, with attribution;
- Has two or more digital photos attached (not embedded in the text), with appropriate cutlines (photo captions). An article submitted without digital photos that is selected for publication will count as a half-credit. For full credit, it must have accompanying photos.

General advice on writing a good article

- Get all the facts right, stick to the facts, and do not use hearsay or express opinion.
- Take good digital photos.
 - Do not use digital zoom, or else your photos will lack good focus and definition;
 - Take "action shots" of people doing something interesting that is material to the article;
 - Make sure everyone is in the correct uniform and you identify all.
 - **Note:** Good photos are essential to add immediacy and flavor to the story.
- Get good quotes.
 - Ask participants for their opinion;
 - Get full grade, name, position title and unit of assignment for each quote.
 - Get the individual's consent to publish the quote as recorded (read it back).
 - **Note:** Getting quotes is how you get to express opinion, and get your readers to share the experience that you are writing about.
- Write in good, idiomatic, unadorned English.
 - Do not "pad" your sentences, such as saying "due to the fact that" when "because" will do;
 - Avoid trite expressions, such as "it goes without saying" – if it does, don't say it;
 - Avoid colloquial expressions;
 - Do not write in acronyms – always define the first instance, such as "Federal Aviation Administration" before you use FAA;
 - No nicknames – unless famous, such as "Ike" for Pres. Dwight E. Eisenhower. 🇺🇸

Associated Press Style in a Nutshell

Below are the most important rules to keep in mind when writing in AP Style

- Write the title in normal English-language capitalization. Never all in caps.
- Add your byline below the article title
- Do not format the text in the article (only exceptions are: bullet comments and numbered paragraphs in a section that details a process or sequence).
- Do not indent the first line of a paragraph.
- Use AP Style rules for punctuation.
- Single space the article. At the end of each paragraph, execute two end-of lines (Enter key).
- Do not introduce artificial paragraphing by hitting the Enter key at the end of each line in your article. Instead, let the text wrap naturally and tap two Enter keys at the end of the paragraph.
- Use only a single space after a period.
- Insert a dateline at the beginning of the article, following AP Style rules.
- Answer the 5Ws: Who, What, Where, When, Why + the honorary W: How. In writing a CAP article, you will always know the 5Ws.
- Write all dates in AP style.
- Do not use postal codes instead of state abbreviations (not OK but Okla., not NM but N.M.) but some states have no abbreviation, such as Texas.
- Write all military grades in AP Style.
- Write the article in the third person singular.
- Express no opinion.
- To express opinion, use one or more quotes of qualified sources – always get the quoted person's permission to include the quote, unless it is a matter of record (printed article or recorded audio-visual). Get the quoted person's grade, name, job title and organization.
- Never self-quote.
- Identify all persons by grade or title, name, job title if material, and organization.
- Never refer to a young person as "kid."
- When a young person is a CAP cadet, never use "kid," "boy," "girl" or "child" but identify each one by grade, full name (or last name only – never first name only), and unit of assignment.
- Never use "their" for the possessive of a singular subject, such as, "the cadet took their meal."
- Avoid the abbreviations i.e. and e.g. You may know what each one means, and the Latin words they represent, but most people confuse the two. Be clear. Write in English and leave Latin and non-English to scholars.
- Refer to CAP members by grade, name, duty position and unit of assignment. Never by first name.
- On second or subsequent references, use only the last name, except when there are two persons with the same last name, in which case the use of both first and last name is preferred (never just the first names).
- In the case of CAP or military commanders or higher ranking senior members, on second reference use the grade and last name.
- Do not use Lt. as a grade. Lt. is a mode of address. The correct grade may be 2nd Lt. or 1st Lt., but never Lt. The Navy is the only service that has the grade of Lt.
- Do not use exclamation marks, as doing so expresses opinion.
- Use simple declarative sentences.
- Avoid the passive voice.
- Remember the good rules of English grammar and syntax, and follow them.
- **For best results**, buy the latest copy of the Associated Press Stylebook, available at a modest cost at www.ap.org – read it, study it, know it, and use it. 📖